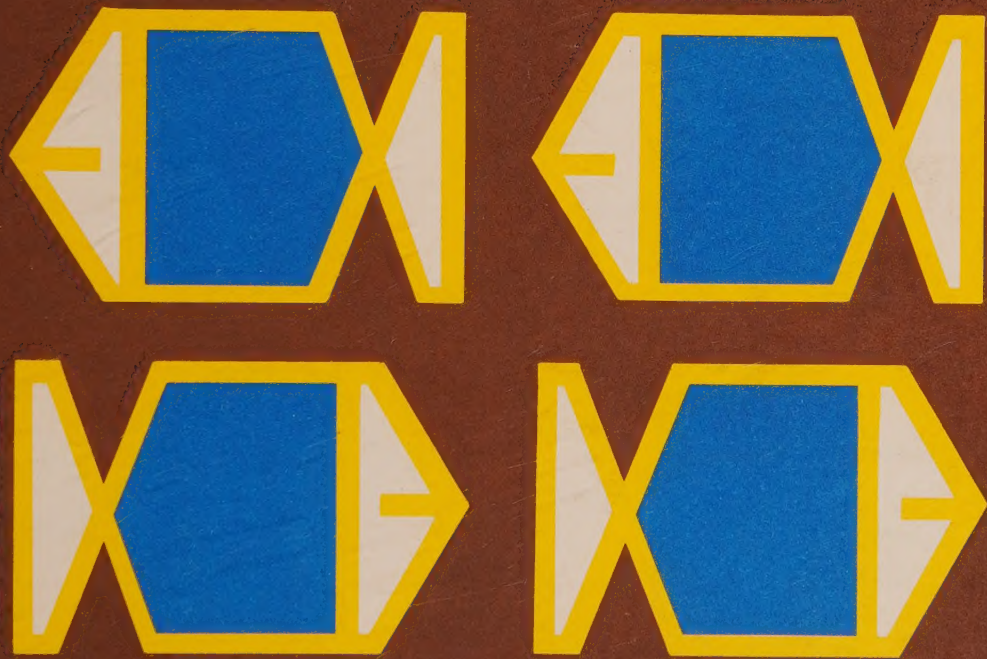


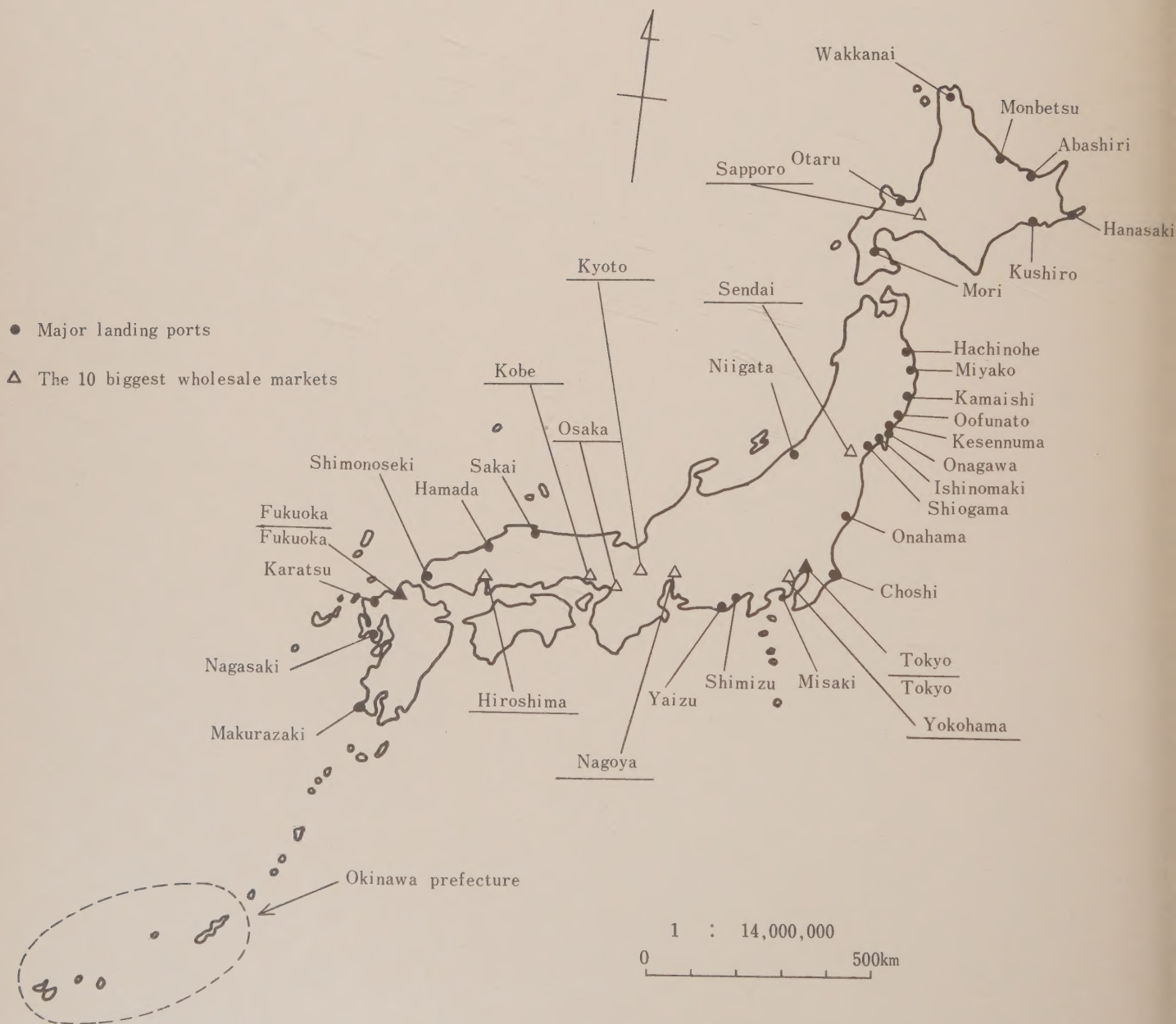
1973

FISHERIES STATISTICS OF JAPAN 1973



STATISTICS AND INFORMATION DEPARTMENT
MINISTRY OF AGRICULTURE AND FORESTRY
GOVERNMENT OF JAPAN

MAJOR LANDING PORTS AND THE 10 BIGGEST WHOLESALE MARKETS IN JAPAN



FISHERIES STATISTICS
OF JAPAN
1973

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Statistics and Information Department

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FOREWORD

This bulletin "The Fisheries Statistics of Japan" has been published yearly since 1963 by the Statistics and Information Department, Economic Affairs Bureau, Ministry of Agriculture and Forestry to give a general view to all foreign interested people on the current fishery situation of Japan.

Most of the statistics in this publication are extracted from "The Annual Statistical Report on Catch of Fisheries and Aquaculture in 1973" and "The Annual Statistical Report on Marketing of Fishery Products in 1973".

Illustrations of sea fishing gears and important fish species in Japan are shown in the last pages with their English, Japanese and scientific names for the better understanding of the readers.

I hope this publication will be useful to the foreign readers who wish to obtain a real picture of Japanese fisheries.

July, 1975

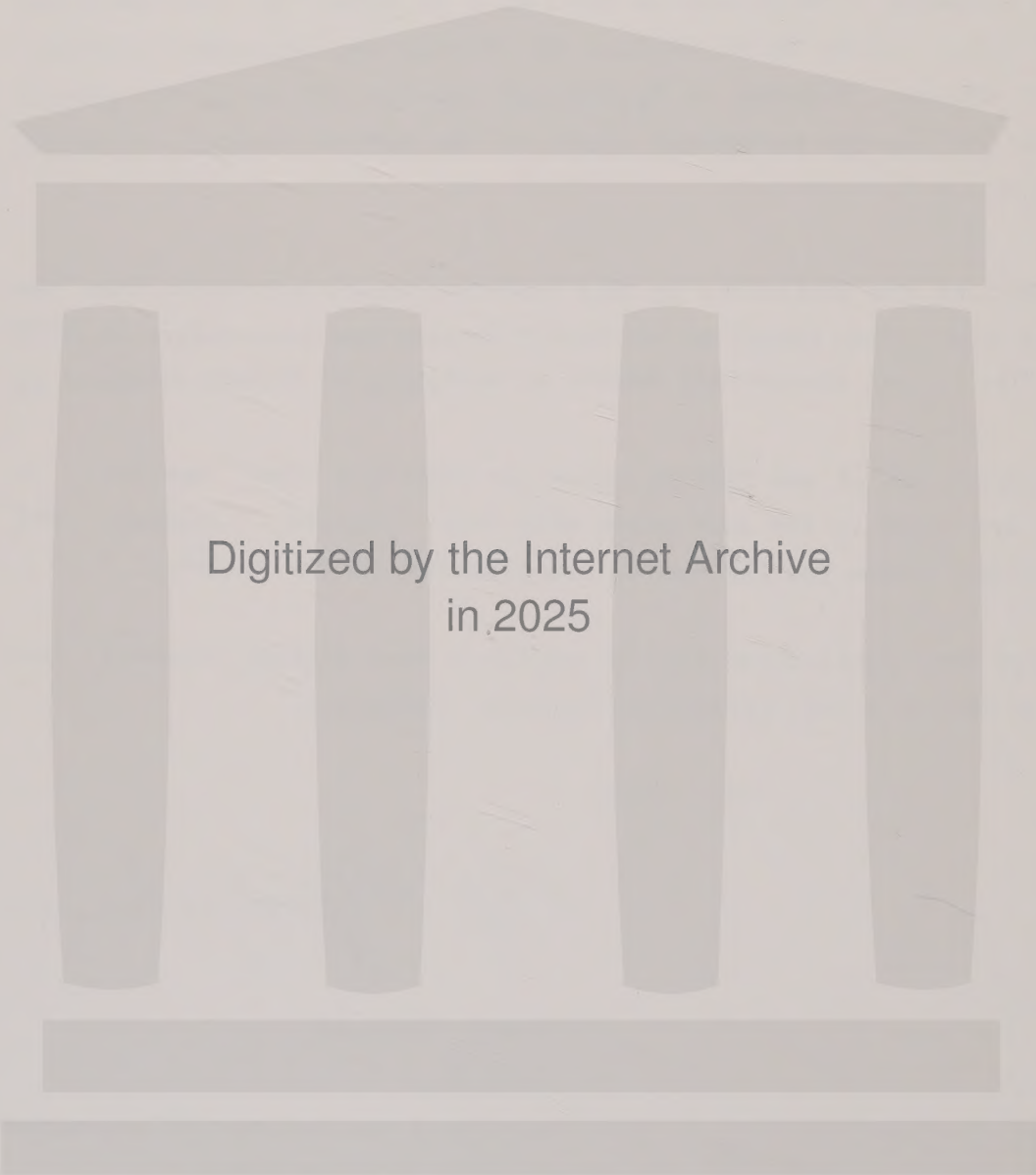
A handwritten signature in cursive script, reading "Y. Yoshioka".

Yutaka Yoshioka

Director

Statistics and Information department
Economic Affairs Bureau

Ministry of Agriculture and Forestry
Government of Japan



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Explanation

I . Fishery Production of Japan (excl. okinawa)

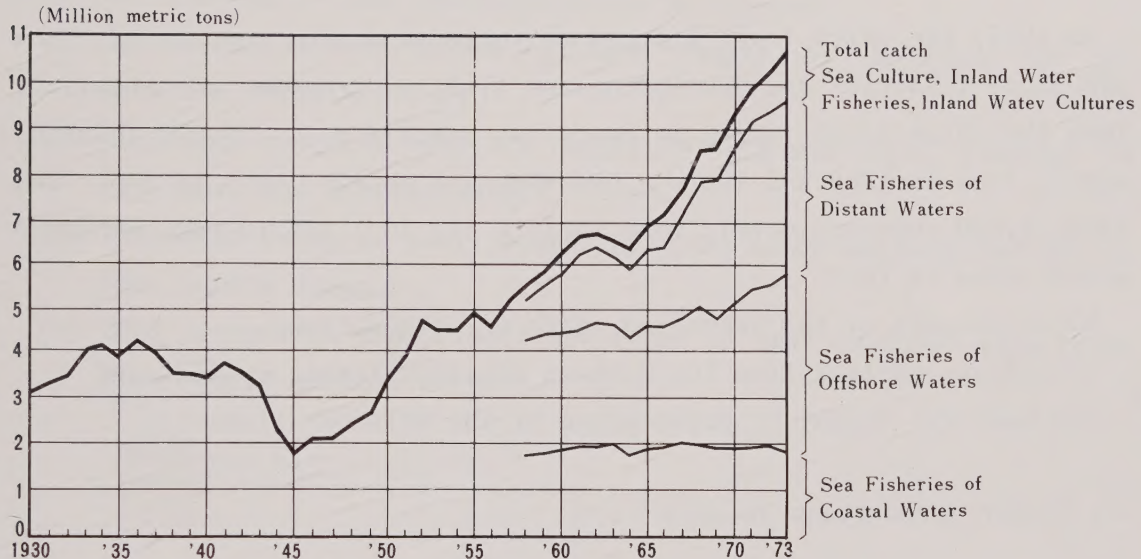


Fig. 1 JAPANESE TOTAL CATCH, 1930~1973

1. Fishery Production in the past

Before the World War II, the highest annual catch including culture products was 4,330 thousand metric tons with a large sardine catch of 1,628 thousand metric tons in 1936.

Fisheries operations in Japan were severely affected by the War and reduced the catch by half in the year of 1945. However, after the World War II, the fishery production gradually recovered and reached to 4,823 thousand metric tons in 1952 which was over the highest catch record before the World War II. Until 1962, the catch increased continuously from year to year owing to the development of off shore and distant fisheries and improvements in fishing skills and technology.

However, the catch level fell down temporarily in 1963 and 1964.

This was because of :

- (1) a reduced number of mother ship type trawling fleets in distant waters and
- (2) a poor catch of off shore fisheries including purse seine, saury stick-held-dip net and squid fishings.

In 1965, the catch level started to increase again recovering the off shore fisheries and developing new fishing grounds on trawling. Then the catch level jumped by every two years i.e. 7,000 thousand metric tons in 1966 and 1967, 8,000 thousand metric tons in 1968 and 1969, 9,000 thousand metric tons in 1970 and 1971 and 10,000, thousand metric tons in 1972.

Major species of the increased catch were as follows.

- (1) Alaska pollack from the Northern Pacific fishing grounds and
- (2) Mackerel caught by purse seine of the offshore fisheries.

2. Fishery production in 1973

(1) Total production

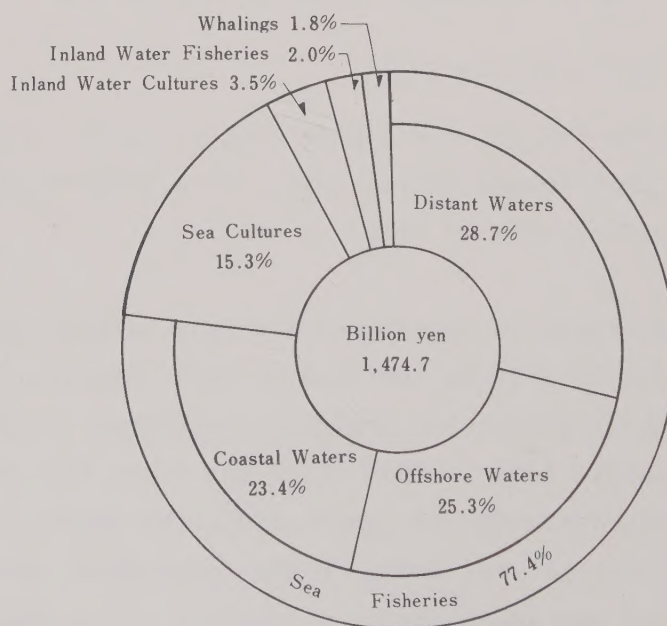


Fig.2 TOTAL CATCH BY SECTOR OF FISHERIES IN VALVE, 1973

The total production in 1973 taken from sea and inland waters fisheries including culture but excluding whaling was 10,692 thousand metric tons which was 478 thousand metric tons or 3 percent over that of the last year. Also, it was estimated at ¥1,448.2 billion. This was an increase of ¥268.5 billion or 23 percent over the previous year. There were four reasons of the increased catch as follows

- (1) Increased catch of Alaska pollack caught by trawlers in the Northern Pacific waters,
- (2) Increased catch of skipjack caught by pole and line fishing in off shore and distant waters,
- (3) Increased catch of saury caught by saury stick-held dip net in the seas around Japan,
- (4) Good production from almost all types of sea culture especially from "Nori" seaweed culture.

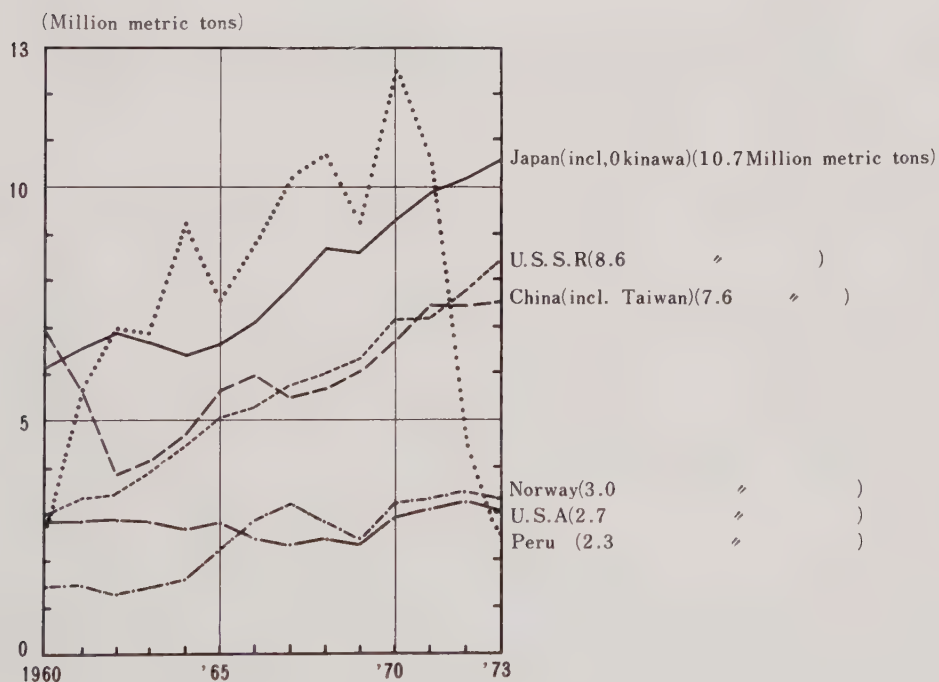


Fig. 3 CATCH BY COUNTRY OF THE WORLD, 1960~1973

As a result, the total fishing production of Japan has occupied 16 percent of the total worldwide catch which was 65,700 thousand metric tons in 1973.

(2) Production by Fishery Sectors

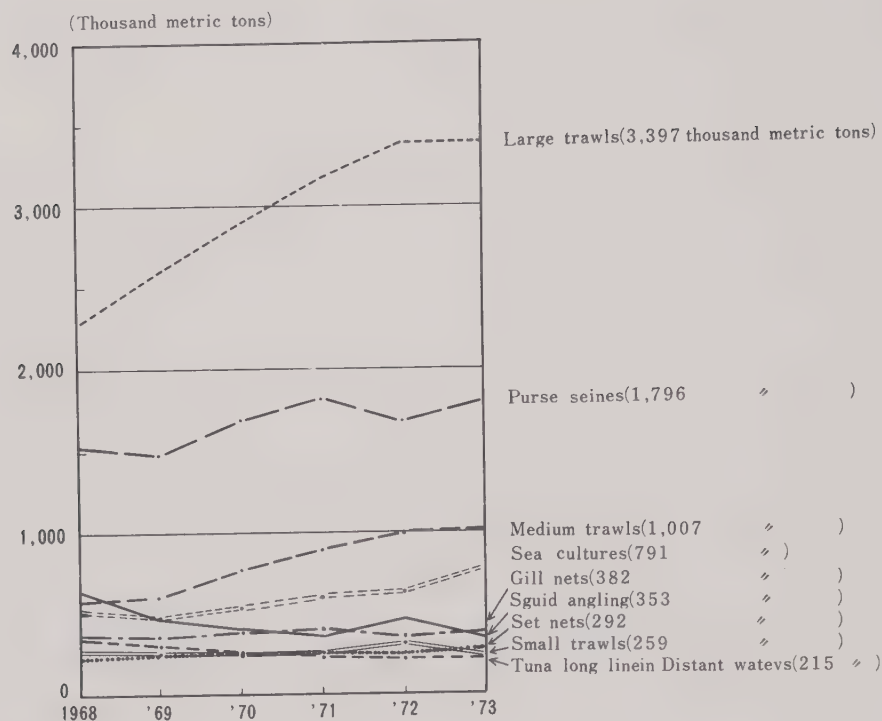


Fig. 4 CATCH BY TYPE OF FISHERIES, 1968~1973

The production from sea fishery in 1973 was 9,722 thousand metric tons with worth ¥1,141.1 billion. This was an increase of three percent in quantity and twenty one percent in value over the preceeding year.

The catch by the sub-sector of the sea fishery were as the following table.

Sub-sector of Sea Fishery	Catch in quantity		Catch in value	
	(thousand metric tons)	1973/1972 × 100	(billion yen)	1973/1972 × 100
Long Distant Waters	3,960	2%	423.8	22%
Offshore Waters	3,940	10	372.7	26
Coastal Waters	1,810	(-) 5	344.6	15

The yield from the sea culture expanded continuously succeeding the previous year. It was 791 thousand metric tons with worth ¥225.1 billion

being 22 percent in quantity and 32 percent in value over the previous year respectively. The reasons of such increases were;

- (1) Increased harvest of the "Nori" seaweed culture which was marked the highest yield in the past and
- (2) Increased harvest of yellow tail, oyster, "Wakame" seaweed and etc.

The catch from the inland water fishery was 114 thousand metric tons with worth ¥29.8 billion. This was four percent in quantity and twenty nine percent in value over the previous year respectively due to the increased catch of almost species from the inland water fishery including sweet fish, carps, salmons and trouts.

The yield of the inland water culture was 64 thousand metric tons with worth ¥52 billion. This was an increase of 15 percent in quantity and 18 percent in value over the previous year respectively. Almost species especially carps were increased in yield.

Unit: Million yen

Species	Value	Percentage of the total catch	Species	Value	Percentage of the total catch
<u>Grand Total</u>	1,474,383	100.0 %	Yellow tail	45,235	3.1 %
Sea Fisheries	1,141,142	77.4	Pearl	16,271	1.1
<u>Albacor, tunas</u>	171,054	11.6	Oyster	12,836	0.9
Squid, Cuttle fishes	104,992	7.1	<u>Inland Water Fisheries</u>	29,848	2.0
Alaska Pollack	91,034	6.2	Sweet fish	11,143	0.8
Salmons, trouts	70,627	4.8	Eel	2,474	0.2
Skipjack etc.	55,884	3.8	Salmons, trouts	2,166	0.1
Flounders, halibut	53,854	3.7	<u>Inland Water cultures</u>	52,066	3.5
Mackerels	42,812	2.9	Eel	26,429	1.8
Jackmackerel, scad	30,041	2.0	Carps	11,521	0.8
<u>Sea Cultures</u>	225,113	15.3	Trouts	7,726	0.5
"Nori" Seaweed	119,492	8.0	<u>Whaling</u>	26,214	1.8

Table. 1 MAJOR SPECIES FOR EACH SECTOR OF FISHERY. 1973

The total number of whales caught by whalings was 11,801 with worth ¥26.2 billion. This was an increase of 30 percent in number and 4 percent in value over the previous year. By species, the number of fin whales, sei whales, sperm whales and small size type whales caught were 1,441, 4,745, 5,082 and 533 and they were reduced the number by 319, 1961, 491 and 18 from the previous year respectively.

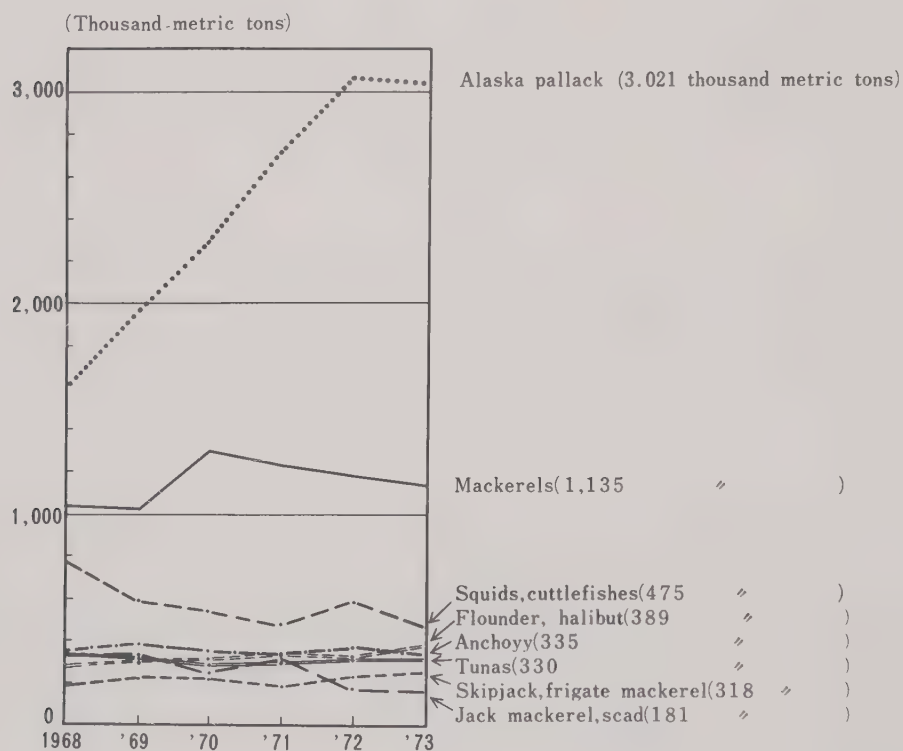


Fig. 5 CATCH BY MAJOR SPECIES, 1968~1973

II. Structure of Fishery in Japan(excl.okinawa)

1 Sea Fishing Establishments

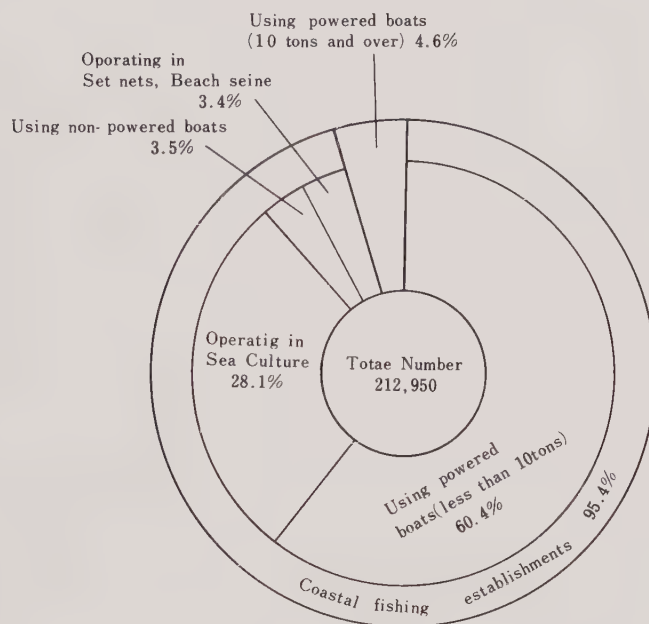


Fig. 6 NUMBER OF SEA FISHING ESTABLISHMENTS, 1973

The number of sea fishing establishments (Excluding those using no fishing boats) were continuously increased from 1965 to 1969. However, the number has turned to decrease since 1970 and the total number of 1973 was estimated 212,900 which were a decrease of 10,300 compared to the previous year. The number of establishments operating the fishing in the coastal waters were greatly decreased so that the number consisted of 95 percent of the total number of decreased establishments.

2 Sea Fishery Workers

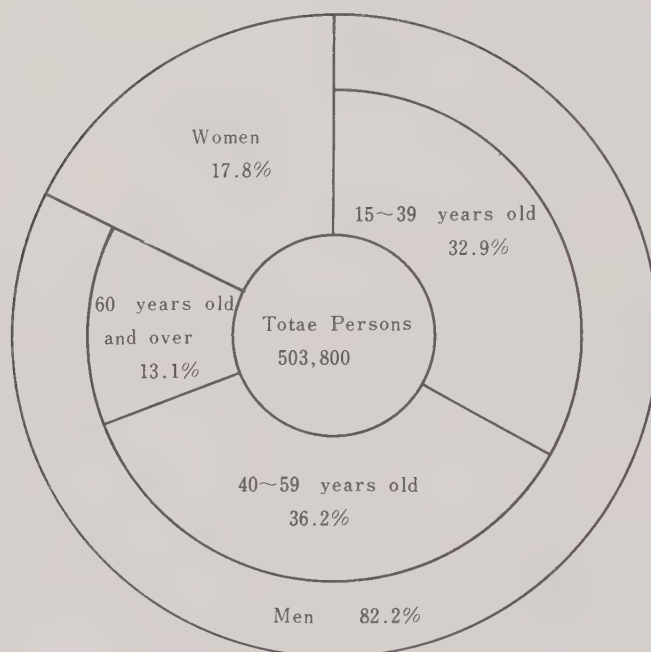


Fig. 7 NUMBER OF SEA FISHERY WORKERS, 1973

In recent years, the number of sea fishery workers have decreased continuously from year to year. They were 503,800 persons in 1973 which were a decrease of 4,400 persons or one percent below that of the previous year. Major reason of such decrease is contributed to the manpower movement from the primary industry sector including fishery to the other industry sectors according to the rapid growth of economics in the secondary industry in Japan.

The number of men and women sea fishery workers in 1973 were 414,200 and 89,600 which were a decrease of 5,300 in the men and an increase of 1,000 in the women compared to the last year. On the other hand, the men-40 and over 40 years old fishery workers were decreased by 15,200, and the men-less than 40 years old were increased by 9,800 in number compared to the previous year. From these figures, We understand that more the large number of old age people and women engage in the fishery industry for recent years.

3 Fishing Boats

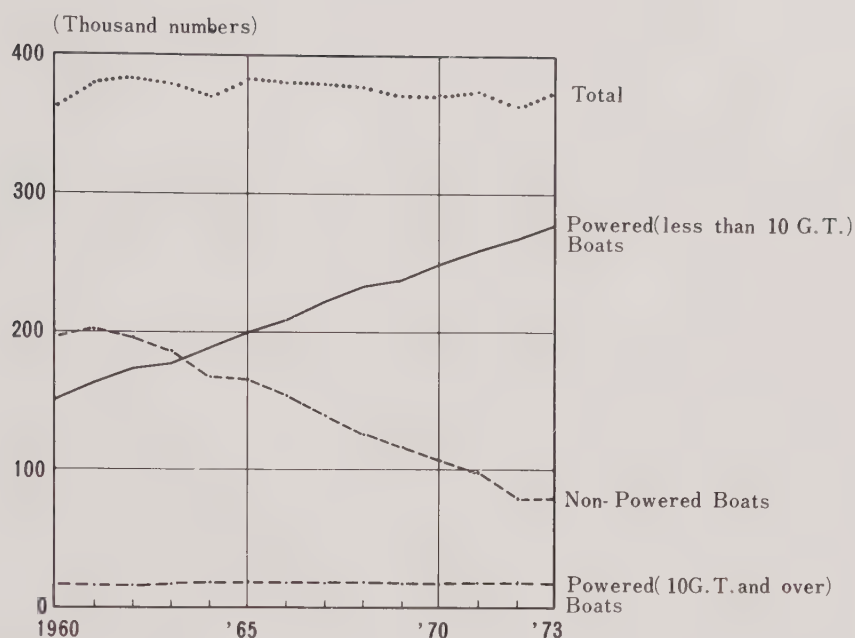


Fig. 8 NUMBER OF SEA FISHING BOATS, 1960~1973

The total number of fishing boats in Japan were not so changed recently. But in 1972 the number was slightly decreased. However, in 1973 it was turned to increase and the total number of fishing boats recovered to 373 thousand which was an increase of 7,400 fishing boats or two percent over the previous year. The number of non-powered fishing boats as well as powered boats were increased. Especially the number of powered fishing boats less than 10 tons were greatly increased.

In 1973, the number of powered fishing boats consists of 79 % of the total, while in 1968 it was 66%. In recent five years the following two sizes of fishing boat were specifically increased in number.

- (1) Powerd fishing boat, less than 10 tons
- (2) Powered fishing boat, 100-500 tons

As for the gross tonnage of fishing boats, it was reduced to 56,900 tons for the non-powered fishing boats in 1973 while it was 92,100 tons in 1968. On the other hand, contraly to the non-powered fishing boats,

the powered fishing boats increased it from 2,309,000 tons in 1968 to 2,611,200 tons in 1973.

III. Export and Import of Fishery Products

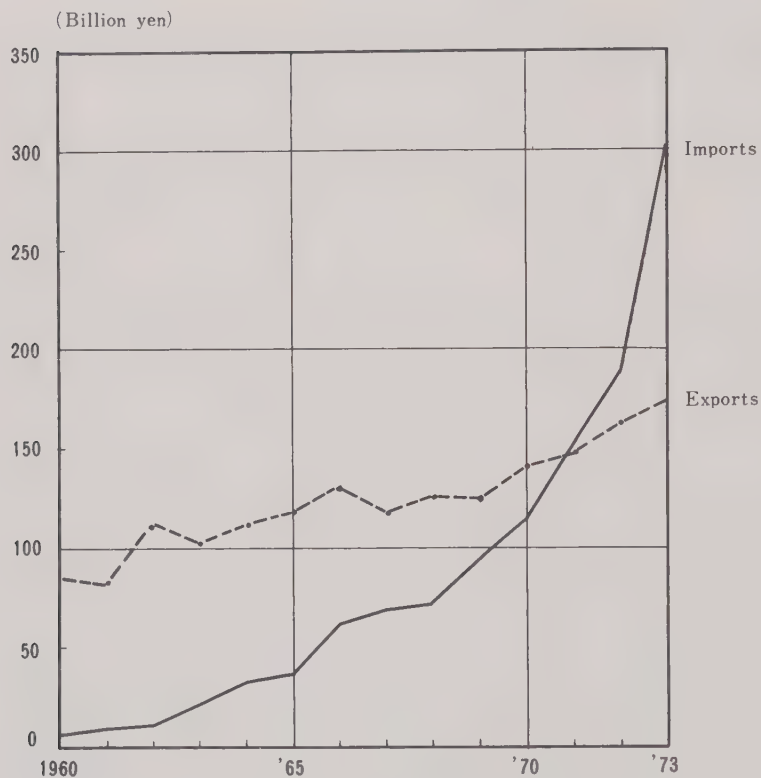


Fig. 9 VALUE OF FOREIGN TRADE, 1960~1973

1 Imports

The import of fishery products has increased rapidly and constantly year after year for recent 10 years.

In 1971 the value of the imported fishery products exceeded over the value of the exported products. The total amount of imported fishery products reached to ¥300.1 billion in 1973. This was a great increase of 109.7 billion or 58 percent over the last year. Then, it was high up to 2.9 percent of the total amount of products imported to Japan.

Of the total imported fishery products, fresh and frozen products had a great share being 68 percent in 1973. Among of them the products of shrimps consisted of 39 percent of the total.

Major countries from which fishery products were imported were Korea, Taiwan, USA, Indonesia and People's Republic of China and their percentages to the total were 16, 8, 8, 7, and 7 percent respectively.

2 Exports

Exports of fishery products from Japan have increased constantly and gradually from year to year and the total amount reached to ¥ 173.5 billion in 1973. This was an increase of ¥11.3 billion or 7 percent compared to the last year. But, the share out of the total exported products from Japan has been in downward for recent years, and it was 1.7 percent of the total in 1973.

Canned and frozen fish products have a great share being 39 and 38 percent of the total respectively. Of which the canned mackerel and tuna and the frozen product of skipjack, tunas, and marlins were major items.

Major destination countries of the fishery products from Japan were USA, United Kingdom, Canada and Switzerland being 35,6,4, and 4 percent of the total respectively in 1973.

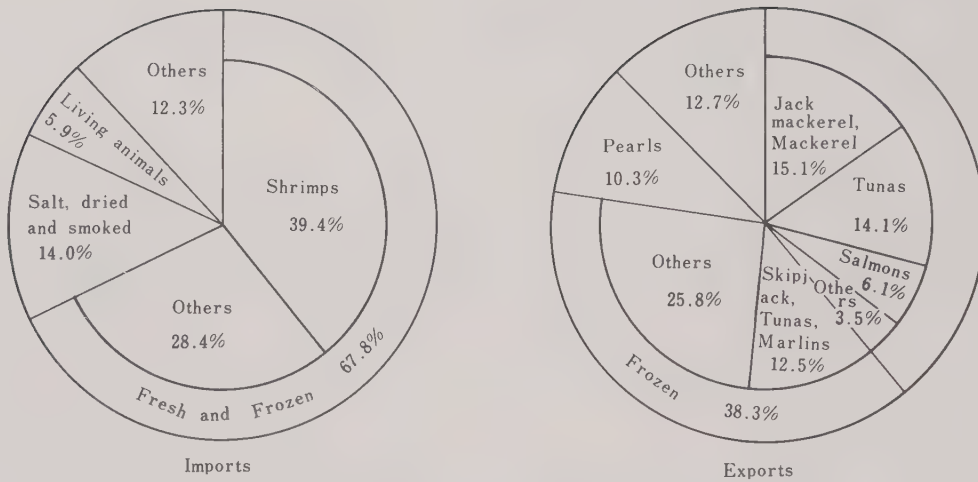


Fig. 10 VALUE OF FOREIGN TRADE BY COMMODITY, 1973

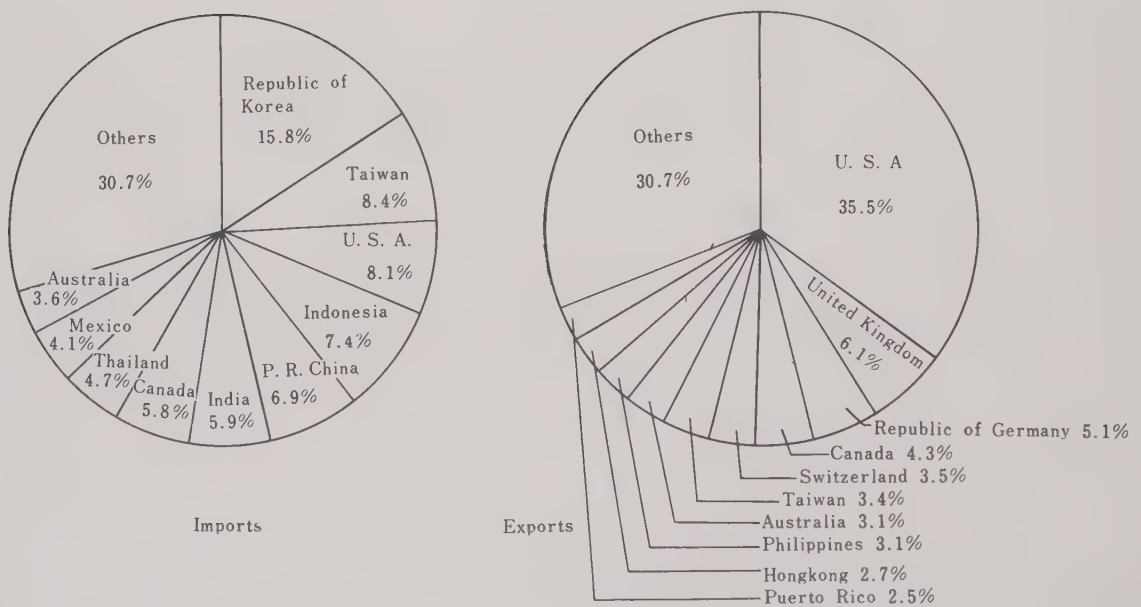


Fig. 11 VALUE OF FOREIGN TRADE BY COUNTRY, 1973

STATISTICAL TABLES

(excluding Okinawa)

1. SUMMARY OF CATCH BY FISHERY SECTOR, 1940~1973

Quantity: Thousand metric tons
Value : Hundred million yen

Year	Sea Fisheries		Sea Cultures		Inland Water Fisheries		Inland Water Cultures		Total		Whalings	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Numbers	Value
1940	3,427	---	78	---	---	---	19	---	3,526	---	9,628	---
1945	1,750	---	61	---	---	---	12	---	1,824	---	531	---
1950	3,255	---	48	---	63	---	5	---	3,373	---	5,332	--
1951	3,774	---	88	---	60	---	6	---	3,930	---	6,335	---
1952	4,646	---	113	---	53	---	9	---	4,823	---	7,816	---
1953	4,387	---	144	---	57	---	8	---	4,598	---	6,631	---
1954	4,304	---	145	---	82	---	9	---	4,541	---	9,591	---
1955	4,658	---	154	---	82	---	11	---	4,907	---	11,866	---
1956	4,488	2,012	180	206	90	62	13	30	4,772	2,310	14,124	160
1957	5,067	2,303	244	174	81	73	14	31	5,407	2,582	15,439	213
1958	5,198	2,257	214	205	78	70	15	37	5,506	2,569	19,922	196
1959	5,568	2,535	225	236	75	69	15	36	5,884	2,877	20,527	221
1960	5,817	2,983	284	338	74	80	15	47	6,192	3,448	19,649	234
1961	6,287	3,340	322	455	81	93	18	64	6,710	3,952	20,845	267
1962	6,397	3,567	362	538	84	94	20	68	6,864	4,266	22,237	269
1963	6,200	3,988	389	650	84	98	23	94	6,698	4,830	22,370	309
1964	5,868	4,039	362	724	89	102	29	111	6,350	4,976	24,409	323
1965	6,382	4,516	380	816	113	100	33	126	6,908	5,558	26,986	366
1966	6,558	5,005	405	974	103	118	36	164	7,103	6,260	22,784	290
1967	7,241	5,677	470	1,074	97	109	42	166	7,851	7,026	21,088	252
1968	7,993	6,097	522	1,010	103	119	52	221	8,670	7,447	21,586	237
1969	7,976	6,928	473	1,130	112	144	52	285	8,613	8,488	17,409	221
1970	8,598	7,581	549	1,353	119	170	48	317	9,315	9,692	16,887	272
1971	9,149	8,957	609	1,374	101	214	50	349	9,909	10,894	16,419	314
1972	9,400	9,417	648	1,708	109	231	56	441	10,213	11,796	14,590	264
1973	9,722	11,411	791	2,251	114	298	64	521	10,692	14,482	11,801	262

2. SUMMARY OF CATCH BY SPECIES, 1940~1973

Unit: Thousand metric tons

Year	Sea Waters					Inland Waters					Total
	Fishes	Molluscs	Crus- taceans	Aquatic plants	Others	Fishes	Molluscs	Crus- taceans	Aquatic plants	Others	
1940	2,435	441	35	523	---	29	---	---	---	---	3,526
1945	1,222	313	31	228	---	13	---	---	---	---	1,824
1950	2,210	760	49	257	28	32	12	1	23	1	3,373
1951	2,572	922	56	290	22	30	12	1	23	2	3,930
1952	3,268	1,033	72	361	27	35	13	1	12	1	4,823
1953	3,253	889	70	292	27	37	15	1	12	2	4,598
1954	3,239	786	99	287	38	44	14	2	31	1	4,541
1955	3,541	802	106	310	53	52	14	3	25	1	4,907
1956	3,441	774	95	304	52	60	16	3	24	3	4,772
1957	3,877	894	108	402	27	64	24	5	2	4	5,407
1958	4,017	893	119	339	42	62	26	3	1	4	5,506
1959	4,267	1,027	119	337	44	59	26	1	1	4	5,884
1960	4,463	1,078	126	386	51	60	25	1	1	3	6,192
1961	5,015	985	138	425	49	66	28	2	1	3	6,710
1962	4,911	1,158	149	501	41	69	30	2	1	3	6,864
1963	4,653	1,303	159	425	51	72	33	1	1	2	6,698
1964	4,745	925	153	361	48	80	35	1	0	2	6,350
1965	5,093	1,082	132	406	52	86	56	1	0	2	6,908
1966	5,232	1,097	142	436	57	86	50	1	0	2	7,103
1967	5,742	1,225	149	534	60	92	42	2	0	2	7,851
1968	6,340	1,430	186	503	57	104	44	2	1	4	8,670
1969	6,561	1,238	153	444	53	107	51	3	1	3	8,613
1970	7,289	1,132	146	521	59	103	58	3	1	3	9,315
1971	7,913	1,065	126	587	66	107	36	5	1	2	9,909
1972	8,075	1,217	137	559	59	110	46	5	1	2	10,213
1973	8,586	1,067	148	651	62	124	45	6	1	2	10,692

3. CATCH IN QUANTITY

Species	1968	1969	1970	1971	1972	1973
Grand Total 1)	8,670,137	8,613,422	9,314,662	9,908,544	10,213,113	10,691,545
Sea Fisheries 1).....	7,993,048	7,975,928	8,597,761	9,148,746	9,400,020	9,722,351
Fishes.....	6,307,788	6,528,303	7,245,352	7,850,527	7,996,464	8,501,751
Albacore,Tunas.....	352,887	332,749	291,017	307,965	318,090	330,282
Marlins swordfishes.....	70,233	68,773	66,733	52,506	48,357	44,937
Skipjack,frigate mackerel.....	191,439	209,378	231,901	191,656	253,936	318,292
Sharks,rays.....	56,029	59,186	60,689	51,370	49,632	49,754
Salmons, trouts.....	113,790	141,309	117,896	139,299	119,601	136,009
Herring.....	67,920	85,240	97,374	100,483	62,198	82,658
Sardine, round herring.....	59,565	49,717	40,626	104,555	106,650	337,286
Anchovy.....	357,668	376,801	365,471	350,692	369,688	335,425
Jack mackerel, scad.....	358,092	340,588	269,311	315,470	193,842	182,720
Mackerels.....	1,015,279	1,011,406	1,301,918	1,253,892	1,189,910	1,134,502
Saury.....	140,204	63,288	93,129	190,288	196,615	406,445
Yellow tails.....	48,363	51,125	54,875	48,102	49,738	52,916
Flounders, halibut.....	261,017	296,367	295,410	347,697	356,845	388,544
Cod.....	109,470	103,780	117,119	95,320	87,604	108,513
Alaska pollack.....	1,606,025	1,944,320	2,346,710	2,707,443	3,035,285	3,020,870
Ataka mackerel.....	86,855	102,581	146,516	147,209	180,552	114,986
Rock fishes.....	147,389	114,710	87,073	100,314	100,520	111,208
Croakers.....	70,980	66,137	64,311	49,878	41,916	45,424
Hairtail.....	59,904	63,565	54,855	45,974	49,634	41,592
Sea breams.....	37,782	38,137	38,329	29,383	32,782	30,276
Spanish mackerels.....	19,915	21,141	19,870	17,444	20,857	13,955
Sand lance.....	150,473	106,541	227,077	271,936	194,930	193,994
Others.....	926,510	881,464	857,142	931,651	937,282	1,021,163
Crustaceans.....	185,440	152,753	145,509	125,666	136,738	147,269
Spiny lobster.....	1,690	1,602	1,485	1,334	1,414	1,284
"Kuruma" prawn.....	1,573	1,290	1,263	1,983	2,232	2,779
Other prawns, shrimps.....	64,440	56,593	52,889	47,834	54,630	58,197
King crab.....	30,350	22,522	17,557	10,539	9,650	6,179
Queen crab.....	61,679	52,311	53,265	42,352	41,730	33,381
Other crabs.....	25,708	18,435	19,050	21,624	27,082	45,449
Molluscs.....	1,161,867	992,055	935,864	860,748	975,978	797,487
Common squid.....	668,364	478,160	412,240	364,349	464,365	346,672
Other squids, Cuttlefishes.....	105,413	111,638	106,677	118,169	135,085	128,369
Octopuses.....	102,718	92,418	96,127	85,507	66,857	62,278
Abalone.....	6,141	6,463	6,466	5,659	5,815	5,839
Short necked clams.....	120,401	116,572	141,997	126,414	115,613	114,459
Common scallop.....	4,989	14,644	16,477	14,439	23,454	22,208
"Mogai" clam.....	37,876	38,289	28,276	59,949	36,059	20,180
Other clams, Shellfishes.....	115,965	133,871	127,604	86,262	128,730	97,482
Echinodermata,etc.....	55,151	51,800	57,764	64,969	56,653	55,473
Marine mammals 1).....	1,288	1,026	1,512	937	1,680	1,714

BY SPECIES, 1968~1973

Unit : Metric tons

Species	1968	1969	1970	1971	1972	1973
Sea weeds.....	281,513	249,991	211,760	245,899	232,507	218,657
Kelps.....	169,874	147,580	110,780	151,725	155,415	130,537
"Wakame seaweed.....	48,263	38,016	45,574	38,480	21,364	26,340
Others.....	63,376	64,395	55,406	55,694	55,728	61,780
Sea Cultures.....	521,941	473,293	549,082	608,684	647,905	790,962
Yellow tail.....	31,777	32,722	43,300	61,743	76,913	80,269
Pearl.....	112	97	85	49	42	34
Oyster.....	267,388	245,458	190,799	193,846	217,373	229,899
"Nori seaweed.....	144,969	134,320	231,464	244,946	217,906	311,400
"Wakame" seaweed.....	76,698	59,821	76,360	94,350	105,678	113,159
Others.....	997	875	7,074	13,750	29,993	56,201
Inland water Fisheries.....	103,212	112,157	119,364	100,716	109,357	114,212
Salmons, trouts.....	2,602	3,214	3,171	3,985	3,554	4,893
Sweet fish.....	9,217	10,329	9,879	10,523	9,716	11,356
Carps.....	13,671	13,555	14,486	15,023	14,898	15,452
Eel.....	3,124	3,194	2,726	2,624	2,418	2,107
Corbicula.....	42,681	48,992	56,144	33,981	44,278	42,934
Others.....	31,917	32,873	32,958	34,580	34,493	37,470
Inland Water Cultures.....	51,936	52,044	48,455	50,398	55,831	64,027
Trouts.....	9,454	10,254	10,632	12,749	13,515	16,422
Carps.....	16,075	15,747	17,256	19,049	24,220	27,775
Eel.....	23,640	23,276	16,730	14,233	13,355	14,862
Others.....	2,767	2,767	3,837	4,367	4,741	4,968
Whaling 2).....	21,586	17,409	16,887	16,419	14,590	11,801
Blue whale.....	-	-	-	-	-	-
Fin whale.....	1,395	2,473	2,416	2,215	1,760	1,441
Humpback whale.....	-	-	-	-	-	-
Sei whale.....	11,915	7,641	7,287	7,114	6,706	4,745
Sperm whale.....	6,861	6,668	6,548	6,465	5,573	5,082
Mink whale.....	836	287	330	291	354	423
Bottlenose whale.....	117	138	113	118	86	31
Pilot whale.....	166	130	152	181	91	77
Others.....	296	72	41	35	20	2
(Blue Whale Unit).....	2,683	2,509	2,442	2,293	1,998	1,512

Note: 1) Excluded whale

2) Actual number of catch

4. CATCH IN VALUE

Species	1968	1969	1970	1971	1972	1973
Grand total 1)	744,748	848,763	969,156	1,089,405	1,179,636	1,448,169
Sea Fisheries 1)	609,698	692,807	785,149	895,728	941,682	1,141,142
Fishes.....	462,416	522,601	590,280	656,481	697,528	873,495
Albacore, tunas.....	78,279	88,331	99,367	128,144	139,000	171,054
Marlins, swordfishes.....	17,956	19,126	21,464	20,520	20,399	19,727
Skipjacked, frigate mackerel.....	19,812	24,304	31,450	33,600	41,767	55,884
Sharks, rays.....	2,985	3,306	3,315	3,054	3,134	3,733
Salmone, trouts.....	35,481	48,251	42,277	44,541	45,073	70,627
Herring.....	5,098	8,442	11,568	9,938	5,653	10,904
Sardine, round gerring.....	4,536	4,611	5,781	8,735	8,533	14,620
Anchovy.....	11,958	12,455	14,495	14,033	17,135	18,099
Jack mackerel, scad.....	21,736	22,842	26,378	27,648	27,622	30,041
Mackerels.....	32,070	27,498	36,398	32,864	37,153	42,812
Saury.....	7,779	10,261	12,012	15,891	12,004	25,307
Yellow tails.....	13,326	15,963	19,542	20,162	19,072	23,585
Flounders, halibut.....	22,601	27,382	34,558	37,636	45,875	53,854
Cod.....	5,387	5,712	7,457	7,286	6,708	10,435
Alaska pollack.....	36,773	46,889	53,778	61,338	69,089	91,034
Atka mackerel.....	2,322	2,883	2,570	2,925	3,558	3,533
Rock fishes.....	9,684	9,106	9,206	11,312	11,301	12,554
Croakers.....	8,114	6,968	6,670	5,396	5,280	5,535
Hairtail.....	4,696	5,531	4,601	4,460	5,480	4,822
Sea breams.....	16,720	20,111	22,339	21,746	26,447	28,719
Spanish mackerels.....	2,923	2,380	3,691	2,757	3,398	3,110
Sand lance.....	2,514	2,038	4,714	6,272	6,025	7,532
Others.....	99,666	108,211	116,647	136,223	137,821	165,974
Crustaceans.....	35,862	38,247	40,909	45,391	55,664	67,537
Spiny lobster.....	2,292	2,412	3,096	2,940	3,573	3,909
"Kuruma" prawn.....	3,084	3,160	3,124	5,112	6,078	7,564
Other prawns, shrimps.....	12,370	13,904	15,019	17,545	23,963	28,351
King crab.....	7,362	5,349	4,769	3,495	3,788	2,557
Queen crab.....	6,526	9,056	10,465	10,915	10,646	13,184
Other crabs.....	4,228	4,366	4,436	5,384	7,616	11,972
Molluscs.....	91,021	108,244	124,878	160,057	154,320	159,753
Common squid.....	33,811	40,888	48,972	78,809	67,908	64,043
Other squids, cuttlefishes.....	20,588	28,411	20,593	27,177	37,458	40,949
Octopuses.....	15,654	12,928	25,369	20,990	15,312	16,293
Abalone.....	4,684	5,692	6,276	6,654	8,149	9,841
Short necked clams.....	2,648	3,025	3,604	3,869	4,704	5,360
Common scallop.....	626	1,833	2,621	2,983	3,971	4,136
"Mogai clam.....	1,465	1,918	1,704	4,971	1,360	764
Other clams, shell fishes.....	11,545	13,549	15,739	14,604	15,458	18,367
Echinodermata, etc.....	5,425	7,044	9,030	11,218	11,003	14,398
Marine mammals 1).....	78	73	117	135	163	180

BY SPECIES, 1968~1973

Unit : Million yen

Species	1968	1969	1970	1971	1972	1973
Sea weeds.....	14,897	16,597	19,936	22,444	23,003	25,780
Kelps.....	8,642	8,669	11,324	15,122	17,013	17,828
"Wakame" seaweed.....	2,774	3,439	4,672	3,787	2,107	3,164
Others.....	3,481	4,489	3,940	3,535	3,882	4,788
Sea Cultures.....	100,972	113,044	135,276	137,383	170,776	225,113
Yellow tail.....	13,050	15,180	21,157	34,255	45,372	45,235
Pearl.....	20,396	22,600	20,105	10,823	13,893	16,271
Oyster.....	8,087	8,149	8,627	10,369	12,189	12,836
"Nori" seaweed.....	53,315	59,788	74,527	66,450	76,948	117,903
"Wakame" seaweed.....	3,246	3,611	6,506	6,958	8,397	10,675
Others.....	2,878	3,716	4,354	8,528	13,977	22,193
Inland Water Fisheries.....	11,942	14,419	17,019	21,371	23,079	29,848
Salmons, trouts.....	670	928	1,092	1,427	1,462	2,166
Sweet fish.....	4,913	4,514	5,177	8,113	8,579	11,143
Carps.....	1,821	2,486	2,957	2,887	3,252	3,644
Eel.....	1,699	2,335	2,990	3,138	2,998	2,474
Corbicula.....	341	490	674	1,257	1,700	1,943
Others.....	2,498	3,666	4,129	4,549	5,088	8,478
Inland Water Cultures.....	22,136	28,492	31,712	34,923	44,099	52,066
Trouts.....	1,881	2,000	2,509	4,755	5,041	7,726
Carps.....	2,978	4,100	5,074	7,067	7,547	11,521
Eel.....	15,484	20,483	22,084	18,788	26,096	26,429
Others.....	1,793	1,909	2,045	4,314	5,416	6,390
Whaling.....	23,672	22,107	27,195	31,374	26,399	26,214

Note: 1) Excluded whale

5. CATCH IN QUANTITY BY FISHERY TYPE, 1968~1973

Unit : Metric tons

Type of Fisheries	1968	1969	1970	1971	1972	1973
Grand Total 1)	8,670,133	8,613,422	9,314,662	9,908,544	10,213,113	10,691,552
Sea Fisheries 1).....	7,993,048	7,975,928	8,597,761	9,148,756	9,400,020	9,722,351
Distant Waters.....	2,830,343	3,165,260	3,429,038	3,673,686	3,904,545	3,963,312
King crab gill net.....	47,275	34,637	32,725	22,781	21,927	17,159
Salmon drift gill net.....	37,642	40,274	36,409	37,238	35,205	35,588
Large trawls 2).....	2,266,292	2,594,189	2,883,058	3,164,953	3,375,004	3,397,195
Tuna long lines.....	341,069	313,270	276,028	245,361	231,277	215,029
Skipjack pole-and-line.....	125,948	145,767	162,195	164,770	201,785	262,746
Others.....	12,117	37,123	38,623	38,583	39,347	35,595
Coastal and Offshore Waters....	5,162,704	4,810,668	5,168,723	5,475,060	5,495,475	5,759,039
Medium trawls.....	572,391	607,918	765,490	894,863	997,006	1,006,796
Small trawls.....	268,888	264,674	243,145	265,283	324,811	258,814
Purse seines.....	1,531,144	1,484,453	1,697,241	1,820,862	1,686,319	1,795,689
Saury stick-held-dip net.....	126,893	51,364	83,730	171,419	177,483	390,716
Other lift nets.....	103,714	64,946	87,968	106,007	84,775	79,948
Gill nets.....	365,414	358,253	384,386	405,063	362,604	382,333
Set nets.....	220,278	240,694	257,532	262,511	262,427	291,512
Skipjack pole-and-line.....	70,291	76,861	74,431	65,328	89,346	96,149
Squid angling.....	649,056	467,491	403,692	364,577	465,474	352,749
Other angling.....	224,157	218,142	189,061	142,971	124,395	160,274
Tuna long line.....	77,937	79,141	76,542	71,343	72,686	81,019
Other long lines.....	143,567	114,002	110,032	97,954	87,960	98,543
Shellfish collectings.....	174,104	190,680	231,777	184,161	159,051	170,540
Seaweed collectings.....	277,955	246,553	208,905	243,480	230,065	215,672
Others.....	357,916	345,496	354,791	379,238	371,073	378,285
Sea Cultures.....	521,941	473,293	549,082	608,684	647,905	790,962
Inland Water Fisheries.....	103,212	112,157	119,364	100,716	109,357	114,212
Inland Water Cultures.....	51,932	52,044	48,455	50,398	55,831	64,027
Whaling 3).....	21,586	17,409	16,887	16,419	14,590	11,801
Antarctic factory ship type...	8,443	5,358	5,680	7,082	6,571	4,904
North Pacific factory ship type.....	7,548	7,178	6,463	4,876	4,039	3,771
Coastal large type.....	4,777	4,299	4,118	3,842	3,442	2,593
Coastal small type.....	818	574	626	619	538	533

Note: 1) Excluded whale

2) Including value of medium trawls operated in the North Pacific Ocean.

3) Actual number of catch.

6. CATCH IN VALUE BY FISHERY TYPE, 1968~ 1973

Unit: Hundred million yen

Type of Fisheries	1968	1969	1970	1971	1972	1973
Grand Total 1)	7,447	8,488	9,692	10,894	11,796	14,482
Sea Fisheries 1).....	6,097	6,928	7,851	8,957	9,417	11,411
Distant Waters.....	2,381	2,702	2,969	3,348	3,473	4,238
King crab gill net.....	75	78	71	78	71	66
Salmon drift gill net.....	143	197	174	145	133	189
Large trawls 2).....	1,273	1,391	1,505	1,681	1,759	2,104
Tuna long lines.....	723	797	895	1,048	1,077	1,252
Skipjack pole-and-line.....	148	195	253	340	386	535
Others.....	19	44	71	56	47	92
Coastal and Offshore Waters.....	3,716	4,226	4,882	5,609	5,944	7,174
Medium trawls.....	250	285	345	385	451	584
Small trawls.....	365	424	465	555	623	670
Purse seines.....	717	659	819	873	977	1,126
Saury stick-held-dip net.....	68	89	104	144	103	242
Other lift nets.....	48	39	58	65	63	70
Gill nets.....	451	551	579	588	627	846
Set nets.....	275	360	417	515	504	690
Skipjack pole-and-line.....	82	108	114	114	171	205
Squid angling.....	335	408	484	792	716	669
Other anglings.....	222	255	282	269	296	369
Tuna long line.....	137	157	188	220	247	314
Other long lines.....	198	211	221	210	210	243
Shellfish collectings.....	106	144	165	154	170	216
Seaweed collectings.....	147	164	197	223	229	256
Others.....	315	372	445	501	558	674
Sea Cultures.....	1,010	1,130	1,353	1,374	1,708	2,251
Inland Water Fisheries.....	119	144	170	214	231	298
Inland Water Cultures.....	221	285	317	349	441	521
Whaling.....	237	221	272	314	264	262
Antarctic factory ship type....	133	117	148	192	164	168
North Pacific factory ship type	82	80	95	93	75	74
Coastal large type.....	21	22	27	26	24	18
Coastal small type.....	1	2	2	2	2	2

Note: 1) Excluded whale.

2) Including value of medium trawls operated in the North Pacific Ocean.

7. CATCH BY MAJOR SPECIES AND BY SEA

FISHERY TYPE, 1968~1973

1. Albacore, tunas

Unit : Metric ton

	1968	1969	1970	1971	1972	1973
Total Catch	352,887	332,749	291,017	307,965	318,090	330,282
Mother ship type tuna long line.....	42,265	30,778	18,920	15,521	9,031	5,685
Tuna long line operated in Atlantic Ocean.....	19,627	12,509	12,190	8,707	2,489	162
Tuna long line based at foreign ports.....	18,257	12,041	7,041	4,223	2,349	501
Tuna long line based at domestic ports.....	218,675	219,552	202,548	201,736	211,796	215,172
Skipjack pole and line.....	27,776	43,059	34,390	62,927	76,425	88,279
Purse seines.....	16,390	7,757	8,582	8,231	9,530	11,595
Large set net.....	3,100	2,111	2,720	1,425	1,819	2,278
Others.....	6,767	4,942	4,626	5,195	4,651	6,610

2. Marlins, sword fishes

Total catch	70,233	68,773	66,733	52,506	48,357	44,937
Mother ship type tuna long line	6,424	4,461	4,247	3,817	1,515	1,280
Tuna long line operated in Atlantic Ocean.....	1,384	1,515	1,968	295	425	5
Tuna long line based at foreign ports.....	1,288	1,004	1,185	752	156	73
Tuna long line based at domestic ports.....	57,543	56,822	55,651	44,407	44,087	36,403
Large set nets.....	260	275	294	206	232	299
Others.....	3,334	4,696	3,388	3,039	1,942	6,877

3. Skipjack, frigate mackerel

Total catch	191,439	209,378	231,901	191,656	253,936	318,292
Skipjack pole and line.....	166,550	178,330	200,814	165,466	212,124	266,638
Purse seine of one boat operation.....	5,333	7,380	4,673	9,938	16,834	18,657
Purse seine of two boat operation.....	3,243	4,884	5,144	3,566	2,853	2,646
Other anglings.....	5,569	8,596	8,613	3,563	7,795	10,443
Tuna long lines.....	1,133	1,362	1,645	416	505	538
Set nets.....	7,700	6,685	4,649	4,439	8,269	12,363
Others.....	1,911	2,141	6,363	4,264	5,556	7,007

4. Salmons, trouts

Total Catch	113,790	141,309	117,896	139,299	119,601	136,009
Mother ship type salmon drift gill net.....	37,642	40,274	36,409	37,238	35,205	35,588
Salmon drift gill net.....	51,237	54,955	45,615	47,009	54,656	57,703
Other long lines.....	13,394	26,889	13,791	18,573	2,749	4,058
Large set nets.....	7,254	12,601	16,700	24,678	20,627	29,365
Small set nets.....	2,362	3,699	3,613	6,976	3,680	5,531
Others.....	1,901	2,891	1,768	4,825	2,684	3,764

5 . Herring

Unit : Metric tons

	1968	1969	1970	1971	1972	1973
Total catch	67,920	82,240	97,374	100,483	62,198	82,658
Mother ship type large trawl..	22,773	11,615	9,392	9,951	2,444	434
Medium trawls.....	16,026	6,105	9,628	8,414	4,654	21,680
Large set nets.....	8	6	10	7	2	-
Small set nets.....	321	879	69	151	51	36
Other gill nets.....	17,731	35,542	55,128	59,686	41,163	55,502
Others.....	11,061	31,093	23,147	22,274	13,884	5,006

6 . Anchovy

Total catch	357,668	376,801	365,471	350,692	369,688	335,425
Purse seine of one boat operation.....	80,826	77,467	88,729	82,752	85,936	86,240
Purse seine of two boat operation	148,113	174,444	153,568	154,886	144,515	115,082
Other surrounding nets.....	18,788	4,400	2,453	2,028	1,631	960
Other lift nets.....	15,552	12,224	10,356	9,886	9,587	10,443
Set nets.....	12,431	21,379	19,483	26,360	17,233	18,091
Others	81,958	86,878	90,882	74,780	110,786	104,609

7 . Jack mackerel, scad

Total Catch	358,092	340,588	269,311	315,470	193,842	182,720
Purse seine of one boat operation.....	246,049	231,679	169,406	245,765	139,555	132,964
Purse seine of two boat operation.....	35,354	39,179	33,899	29,956	25,169	22,405
Other surrounding nets.....	5,899	6,091	2,317	2,995	1,591	1,266
Other lift nets.....	23,443	12,584	11,065	10,795	7,994	4,094
Other angling.....	4,689	4,802	4,482	3,522	3,351	3,792
Set nets.....	25,372	26,611	22,007	18,375	12,588	12,864
Trawls.....	10,937	15,276	22,494	1,811	1,000	930
Others.....	6,349	4,366	3,641	2,551	2,594	4,405

8 . Mackerels

Total Catch	1,015,279	1,011,406	1,301,918	1,253,892	1,189,910	1,134,502
Mackerel pole and line.....	132,848	126,213	96,658	56,958	33,940	62,841
Purse seine of one boat operation.....	383,773	545,285	773,146	869,216	932,030	919,174
Purse seine of two boat operation.....	428,312	279,411	344,879	259,915	157,374	90,719
Other surrounding nets.....	3,035	2,559	2,879	1,529	893	736
Other lift nets.....	17,365	11,370	19,019	21,990	22,323	16,455
Others.....	49,946	46,568	65,337	44,284	43,350	44,577

9 . Saury

Total catch	140,204	63,288	93,129	190,288	196,615	406,445
Saury stick-held dip net.....	126,821	51,259	83,683	171,393	177,364	390,653
Other gill nets.....	5,839	7,987	7,310	11,293	13,033	13,033
Purse seine.....	6,067	704	311	97	488	514
Set nets.....	1,380	3,204	1,671	6,941	4,757	1,665
Others.....	97	134	154	564	973	580

10. Yellow tails

Unit : Metric tons

	1968	1969	1970	1971	1972	1973
Total Catch	48,363	51,125	54,875	48,102	49,738	52,916
Large set nets	14,456	17,824	16,473	15,179	14,755	14,293
Small set nets.....	3,061	3,525	4,328	4,218	4,174	3,874
Purse seines.....	8,550	9,729	8,758	7,831	11,411	12,100
Other anglings.....	14,956	13,396	17,567	13,838	12,997	15,113
Others.....	7,340	6,651	7,749	7,036	6,401	7,536

11. Flounders, halibut

	1968	1969	1970	1971	1972	1973
Total Catch	261,017	296,367	295,410	347,697	356,845	388,544
Mother ship type large trawl...	70,734	113,600	101,748	134,368	108,039	124,383
Large trawl	37,236	47,136	57,393	70,061	106,430	117,093
Large trawl, west of 128°30'E in East China Sea	16,052	18,312	15,545	16,512	17,149	17,139
Medium trawls	67,628	53,106	52,012	56,074	54,152	60,298
Small trawls	26,358	26,174	26,629	27,695	27,278	26,691
Other gill nets.....	29,247	28,172	31,768	33,446	31,394	32,098
Others.....	13,762	9,867	10,315	9,541	12,403	10,842

12. Cod

	1968	1969	1970	1971	1972	1973
Total catch	109,470	103,780	117,119	95,320	87,604	108,513
Mother ship type large trawl...	42,157	39,439	48,403	17,511	19,617	29,848
Large trawls.....	28,883	29,507	40,165	38,756	28,909	30,036
Medium trawls.....	15,773	14,379	10,558	23,932	24,645	30,642
Small trawls.....	1,176	1,353	1,003	1,183	820	1,205
Other gill nets.....	3,875	3,617	3,383	3,583	3,861	6,520
Other long lines.....	16,759	13,201	12,326	9,087	6,921	8,230
Others.....	847	2,284	1,281	1,268	2,831	2,032

13. Alaska pollack

	1968	1969	1970	1971	1972	1973
Total catch	1,606,025	1,944,320	2,346,710	2,707,443	3,035,285	3,020,870
Mother ship type large trawl...	686,235	677,730	1,030,825	1,075,150	1,154,967	949,750
Large trawls.....	547,159	870,379	898,133	1,130,301	1,284,330	1,453,533
Medium trawls.....	202,407	248,317	251,446	341,086	450,981	476,038
Small trawls.....	1,340	1,865	2,023	2,518	2,398	3,800
Other gill nets.....	147,735	131,967	146,167	143,638	115,950	100,987
Other long lines.....	20,914	13,687	17,158	13,877	25,537	33,927
Others.....	235	375	958	873	1,122	2,835

14. Croakers

	1968	1969	1970	1971	1972	1973
Total catch	70,980	70,137	64,311	49,878	41,916	45,424
Large trawl, in distant waters	269	228	8	1,102	1,304	1,305
Large trawl, west of 130°E in East China Sea.....	67,494	62,773	59,934	44,252	35,554	38,259
Medium trawls.....	364	255	197	204	489	303
Small trawls.....	1,314	1,238	1,184	1,473	1,798	1,838
Others.....	1,539	1,643	2,988	2,847	2,771	3,719

15. Sea breams

Unit : Metric tons

	1968	1969	1970	1971	1972	1973
Total catch	37,782	38,137	38,329	29,383	32,782	30,276
Large trawl, in distant waters.	804	4,503	6,233	1,328	3,472	2,457
Large trawl, west of 128°30' E in East China Sea	4,727	3,921	3,883	2,914	4,044	4,559
Medium trawls.....	3,157	2,372	2,125	1,709	1,982	1,816
Small trawls	2,067	2,403	2,153	1,938	2,709	2,320
Other anglings and long lines..	15,720	11,442	10,964	10,397	11,081	10,457
Set nets.....	2,419	2,044	2,242	1,816	2,001	1,641
Others.....	8,888	11,452	10,729	9,281	7,493	7,026

16. Shrimps, prawns, lobster

Total catch	67,703	59,485	55,637	51,151	58,276	62,260
Mother ship type large trawl...	8,754	4,412	1,950	2,057	---	86
Large trawl, in Bering sea....	5,696	5,094	2,541	708	2	-
Large trawls, west of 128°30'E in East China Sea.....	3,003	3,496	2,955	1,654	1,851	6,316
Medium trawls.....	6,778	8,323	5,528	3,356	2,815	3,377
Small trawls.....	28,242	27,169	27,430	28,729	35,237	32,263
Other surrounding nets.....	7,659	3,398	3,966	3,116	3,531	2,964
Others.....	7,571	7,593	11,267	11,531	14,838	17,254

17. Crabs

Total catch	117,737	93,268	89,872	74,515	78,462	85,009
Mother ship type king crab gill net.....	47,275	34,637	32,725	22,781	21,927	17,159
Medium trawls.....	10,504	10,637	12,047	12,014	11,155	6,818
Small trawls.....	5,822	4,862	5,296	4,506	4,251	7,350
Other gill nets.....	8,696	6,098	3,763	4,085	4,907	5,233
Others.....	45,440	37,034	36,041	31,129	37,032	48,449

18. Squids, Cuttlefishes

Total catch	773,777	589,798	518,917	482,518	599,450	475,041
Squid anglings.....	648,859	467,156	403,292	364,175	465,267	352,136
Large trawls, in distant waters.....	37,466	40,825	35,086	37,159	45,371	34,672
Large trawls, west of 128°30 E in East China Sea.....	20,093	17,451	19,295	22,864	21,943	25,501
Medium trawls.....	13,635	13,198	14,888	15,671	22,171	21,604
Small trawls.....	6,360	7,766	8,461	8,617	9,026	9,736
Large set nets.....	13,929	11,931	13,941	10,397	11,480	12,584
Small set nets.....	19,162	17,021	11,799	10,209	13,207	9,576
Others.....	14,273	14,450	12,155	13,426	10,985	9,232

19. Octopuses

Total catch	12,718	92,418	96,127	85,507	66,857	62,278
Large trawls, in distant waters	64,791	52,213	50,853	38,063	25,287	19,390
Medium trawls.....	3,973	4,111	4,112	3,127	3,063	2,511
Small trawls.....	7,560	8,618	9,122	8,972	9,163	9,423
Other anglings.....	2,939	2,910	2,471	2,579	2,296	2,265
Other long lines.....	7,529	6,568	9,335	11,302	6,407	7,784
Others.....	15,926	17,998	20,234	21,464	20,641	20,905

8 . NUMBER OF SEA FISHING ESTABLISHMENTS, 1968~1973

Unit : Number

Strata	1968	1969	1970	1971	1972	1973
Grand Total	228,758	232,219	228,215	225,438	223,202	212,870
Fisheries using non- powered boats	20,083	15,512	12,877	9,937	8,256	7,514
Fisheries using powered boats						
Less than 3 tons	99,220	103,705	102,051	101,568	101,235	94,469
3 - 5 tons	20,739	20,601	20,816	21,825	23,647	25,848
5 - 10 tons	6,173	7,007	7,051	7,304	7,817	8,208
10 - 30 tons	4,970	5,216	5,186	5,193	5,445	5,292
30 - 100 tons	2,629	2,729	2,717	2,781	2,905	2,796
100 - 200 tons	620	663	691	711	704	621
200 - 500 tons	541	563	587	584	609	597
500 - 1,000 tons	243	267	263	252	258	270
1,000 tons and over	154	156	169	172	186	206
Set nets						
Large set nets.....	711	827	847	861	867	815
Small set nets.....	5,074	5,577	5,701	5,807	5,841	5,652
Beach seine.....	1,069	904	811	784	758	804
Culture						
Laver culture.....	47,767	48,487	48,585	47,226	43,028	37,161
Oyster culture.....	3,299	3,658	3,484	3,471	3,413	3,218
Pearl culture.....	3,642	3,675	3,380	2,808	2,522	1,864
Other culture.....	11,824	12,672	12,999	14,154	15,711	17,535

Note: 1. Excluding fishing establishments without fishing boat.

2. Excluding fishing establishments which engaged less than 30 days in a year.

9 . NUMBER OF SEA FISHERY WORKERS, 1968~1973

	1968	1969	1970	1971	1972	1973
Grand Total	593.8	572.1	549.4	525.4	508.2	503.8
Men	486.2	458.8	437.9	423.5	419.5	414.2
15 - 39 years old	236.7	215.7	202.7	189.3	180.7	165.5
40 - 59 years old	178.7	172.8	167.3	167.7	173.1	182.6
60 years old and over	70.7	70.4	67.9	66.5	65.7	66.0
Women	107.7	113.3	111.5	101.9	88.6	89.6

10. NUMBER OF FISHING BOATS, 1968~1973

Size	1968	1969	1970	1971	1972	1973
Grand Total	397,279	391,390	391,789	396,662	384,391	395,062
sea	375,500	370,518	370,609	374,237	363,258	373,421
Non-powered	126,709	116,945	104,957	97,613	78,225	78,621
Powered	248,791	253,573	265,652	276,624	285,033	294,800
Less than 5 G.T.	222,956	227,599	239,412	250,081	257,602	266,618
5 - 9 G.T.	8,464	8,632	8,923	9,382	9,901	10,344
10 - 49 G.T.	11,598	11,358	11,085	10,876	10,881	10,773
50 - 99 G.T.	3,292	3,339	3,444	3,446	3,690	3,966
100 - 199 G.T.	1,091	1,149	1,212	1,221	1,222	1,242
200 - 499 G.T.	1,063	1,172	1,251	1,294	1,419	1,537
500 - 999 G.T.	126	119	117	115	108	97
1,000 G.T. and over	201	205	208	209	210	223
Inland Water	21,779	20,872	21,180	22,425	21,133	21,641
Non-powered	17,026	15,658	15,643	16,746	14,842	15,453
Powered	4,753	5,214	5,537	5,679	6,291	6,188
Less than 5 G.T.	4,750	5,211	5,532	5,675	6,288	6,185
5 G.T. and over	3	3	5	4	3	3

11. GROSS TONNAGES OF FISHING BOATS, 1968~1973

Size	1968	1969	1970	1971	1972	1973
Grand Total	2,415,421	2,457,699	2,531,318	2,546,992	2,612,074	2,683,381
Sea	2,401,092	2,443,170	2,516,245	2,531,435	2,596,854	2,668,076
Non-powered	92,118	80,781	72,520	67,397	58,027	56,891
Powered	2,308,973	2,362,389	2,443,725	2,464,037	2,538,827	2,611,185
Less than 5 G.T.	384,660	391,305	409,216	426,912	445,918	467,066
5 - 9 G.T.	64,131	65,517	68,082	72,177	76,444	80,197
10 - 49 G.T.	271,044	261,403	252,433	247,614	245,123	234,056
50 - 99 G.T.	268,909	272,671	278,707	277,371	299,197	318 880
100 - 199 G.T.	166,354	174,593	182,826	186,315	185,879	182,097
200 - 499 G.T.	340,242	373,464	403,768	433,633	471,289	488,860
500 - 999 G.T.	95,012	90,549	89,542	87,857	82,542	73,005
1,000 G.T. and over	718,621	732,887	759,152	732,158	733,433	767,023
Inland Water	14,329	14,528	15,073	15,557	15,220	15,306
Non-powered	8,172	7,882	8,202	8,495	7,457	7,855
Powered	6,157	6,646	6,870	7,062	7,763	7,451
Less than 5 G.T.	6,129	6,618	6,822	7,021	7,736	7,424
5 G.T. and over	28	28	48	41	27	27

12. PROCESSED FISHERY

Processed products 1)	1968	1969	1970	1971	1972	1973
Boiled and dried	101.6	80.8	83.3	84.1	89.9	79.2
Anchovies	68.8	58.1	58.0	59.6	66.4	66.9
Jack mackerel	8.4	6.2	6.4	5.5	5.0	2.8
Sand Lance	8.3	4.4	4.4	5.3	4.3	4.4
Others	16.1	12.1	14.5	13.7	14.2	5.1
Cured	89.2	93.5	98.4	95.0	106.3	113.1
Mackerels	13.9	14.5	20.8	22.4	26.9	22.6
Skipjack	20.5	21.3	21.8	20.7	23.6	26.4
Others	54.8	57.7	55.8	51.9	55.8	64.1
Dried	48.6	38.0	41.9	39.5	46.1	45.2
Herring	10.8	15.4	17.5	18.3	19.7	19.1
Squids	27.0	14.5	11.1	8.0	13.1	10.9
Others	10.8	10.1	13.2	13.2	13.3	15.2
Dressed frozen	---	---	51.6	70.3	98.6	108.3
Frozen	2,355.7	2,207.4	2,434.2	2,750.3	2,928.9	3,081.1
Albacore, tuna	267.8	250.0	196.2	210.0	217.2	214.9
Cod, Alaska pollack	46.2	69.1	42.4	52.5	74.0	115.7
Halibut, flounders	50.1	63.7	88.5	126.0	177.7	172.7
Mackerels	299.9	242.1	386.9	441.2	436.7	232.9
Marlins	53.8	52.2	52.8	39.5	39.1	31.9
Sardines, anchovies	92.2	108.3	89.7	102.1	117.6	245.9
Saury	102.9	50.4	76.6	179.9	176.2	331.2
Skipjack	24.7	35.8	45.2	49.3	75.1	141.5
Squids, cuttlefishes, octopus...	386.1	285.9	254.4	231.1	364.9	221.5
Whales	139.5	120.3	118.7	118.1	103.0	99.5
Minced fish meat	153.8	220.4	292.0	359.3	395.0	423.1
Others	738.7	708.6	790.8	841.3	752.4	850.3
Kneaded	999.4	1,077.2	1,081.3	1,127.1	1,158.7	1,185.1
"Chikuwa" 2)	194.0	204.3	221.5	238.5	244.6	249.2
Fish sausage	161.8	168.8	169.5	165.4	162.4	164.3
"Kamaboko" 3)	336.4	368.0	356.4	379.8	400.3	425.1
Others	307.2	336.1	333.9	343.4	351.4	346.5
Manure and feed	639.5	740.1	802.0	843.4	924.6	975.0
Fish meal	309.7	368.8	404.4	421.9	428.5	471.3
Dried press cake	171.7	209.4	250.7	252.9	296.4	305.1
Others	158.0	162.0	146.9	168.7	199.7	198.6
Oil and fat	134.7	145.0	176.9	160.0	162.9	172.9
Fish oil	37.8	50.8	86.5	72.3	88.3	102.4
Fish viscera oil	15.6	21.7	17.9	15.8	14.2	20.3
Whale oil	80.9	72.2	72.3	71.8	60.2	50.2
Others	0.4	0.3	0.2	0.2	0.2	-
Salted	184.0	206.2	180.2	223.4	222.1	223.9
Alaska pollack roe, cod roe	24.7	28.9	33.2	34.8	41.4	46.8
Cod, Alaska pollack	12.8	12.9	11.1	17.7	24.3	15.3
Herring roe, salmon roe	2.4	3.3	5.0	5.4	7.3	9.1
Mackerels	71.8	52.9	53.8	55.5	47.4	28.8
Salmons	30.4	30.1	42.0	53.8	60.0	57.1
Trouts	25.5	49.9	14.9	33.9	22.4	38.7
Others	16.4	28.2	20.2	22.3	19.3	28.1

PRODUCTS, 1968~1973

Unit : Thousand metric tons
Canned Thousand cases

Processed products	1968	1969	1970	1971	1972	1973
Salted and dried	134.8	159.6	144.5	181.6	177.2	211.2
Jack mackerel	37.5	43.3	39.2	38.9	38.2	44.9
Mackerels	21.1	24.7	25.9	29.8	26.3	31.9
Sardines, anchovies	26.8	42.6	22.6	50.8	48.5	56.8
Saury	10.1	4.3	4.6	3.8	7.6	16.4
Others	39.4	44.8	52.2	58.2	56.6	61.2
Smoked	12.3	9.2	7.6	8.1	6.8	9.4
Salmons, trouts	0.4	0.6	0.7	0.8	0.9	1.3
Squids, cuttlefishes	4.9	0.7	0.5	0.3	0.3	0.7
Whale meat	4.9	5.4	3.8	4.6	3.2	1.3
Others	2.1	2.6	2.6	2.4	2.5	6.1
Others	230.2	246.5	251.3	240.8	259.5	289.0
Canned 4) Standard number of cases 5)	14,706	14,116	16,210	18,289	17,575	16,657
(Actual number of cases)	(30,743)	(30,864)	(32,192)	(36,473)	(35,444)	(33,291)
Shellfish	915	817	836	1,056	1,231	861
Crabs	362	314	319	136	159	224
Jack mackerel	233	14	0	13	2	2
Mackerel	7,663	6,473	8,358	10,010	9,905	9,639
Prawns, shrimps	48	6	9	9	10	9
Salmons, trouts	814	1,151	1,077	1,873	954	917
Sardines, anchovies	54	150	47	73	195	296
Saury	508	284	235	569	349	232
Squids, cuttlefishes	307	327	274	43	232	164
Tunas, skipjack	2,634	3,358	4,150	3,355	3,360	3,484
Whale	761	655	622	819	735	600
Others	407	567	283	333	443	229

Note : 1) Excluding dried seaweeds

2) Baked products of kneaded fish meat with seasonings.

3) Steamed products of kneaded fish meat with seasonings.

4) Surveyed by the Cannery Association of Japan.

5) Converted to 450 g x 48 cans in net weight for one case.

13. VALUE OF IMPORTS AND EXPORTS

Imports

Year	Live animals	Fresh and frozen			Salted, dried and smoked	Raw agar-agar
		Shrimps	Skipjack, Tunas, Marlins	Others		
1963	---	8,449	82	2,821	1,427	643
1964	1,027	11,317	232	6,575	2,638	502
1965	535	12,938	290	8,276	3,592	562
1966	931	21,631	1,366	10,090	5,143	1,923
1967	1,305	28,704	2,085	11,663	6,155	2,562
1968	1,752	28,108	3,846	10,935	7,690	816
1969	2,745	43,829	4,923	14,923	7,033	896
1970	5,851	49,329	9,070	18,698	12,478	772
1971	7,779	73,333	11,538	32,832	13,838	610
1972	12,418	89,918	10,422	36,754	22,878	775
1973	17,752	118,207	14,171	71,137	42,059	1,309

Exports

Year	Frozen		Salted and dried	Canned		
	Skipjack, Tunas, Marlins	Others		Jack mackerel, mackerel	Salmons	Saury
1963	18,368	7,507	2,039	3,696	16,322	3,059
1964	22,320	9,025	2,302	5,746	15,309	3,289
1965	21,273	10,707	2,202	4,951	21,945	1,202
1966	31,818	10,724	2,892	8,495	13,766	1,817
1967	18,031	11,820	2,880	10,180	16,680	688
1968	17,758	14,895	3,212	14,502	21,000	312
1969	12,619	18,342	4,354	15,294	13,713	112
1970	13,983	21,573	4,248	19,573	16,181	41
1971	13,794	25,487	4,230	23,140	18,796	29
1972	17,752	36,629	4,513	23,286	17,196	22
1973	21,632	44,688	4,745	26,259	10,419	70

BY COMMODITY, 1963~1973

Unit : Million yen

Fish meals	Pearls	Oil and fat	Prepared	Dried seaweeds	Others	Total
3,984	419	64	388	432	2,678	21,386
4,919	621	64	373	1,889	2,109	32,266
5,897	905	69	1,281	0	3,067	37,422
6,657	1,248	400	2,240	3,474	5,229	60,332
4,867	794	297	2,184	3,924	4,427	68,966
7,278	1,448	424	1,532	5,953	2,352	72,135
5,919	1,496	558	1,808	6,441	3,232	93,843
6,689	1,474	229	3,561	3,099	3,378	114,628
1,414	1,315	356	5,721	1,337	3,272	153,345
3,266	1,550	351	7,384	768	3,854	190,338
8,738	2,175	445	14,784	2,958	6,339	300,074

Unit : Million yen

			Oil and fat		Pearls	Others	Total
Tunas	Crabs	Others	Whale Oil	Others			
12,674	3,948	4,338	9,111	472	17,024	2,926	101,755
13,536	4,635	3,717	7,970	466	19,828	3,843	111,987
12,859	4,531	3,647	7,296	234	23,118	5,030	118,997
17,121	3,876	4,687	4,406	250	23,291	7,193	130,338
18,544	3,716	4,894	2,942	356	19,813	6,866	117,411
19,776	5,446	4,410	1,027	343	16,849	6,685	126,217
23,683	5,534	4,977	1,497	328	17,510	6,919	124,881
28,862	2,929	5,590	2,597	1,307	14,725	9,110	140,717
23,016	3,966	5,288	4,681	2,431	12,599	9,205	146,662
27,091	1,724	6,191	1,555	1,893	14,189	10,138	162,179
24,440	315	5,714	1,693	3,048	17,867	12,604	173,494

14. VALUE OF IMPORTS AND EXPORTS

Imports

Year	Republic of Korea	Taiwan	U.S.A.	Indonesia	P.R. China	India	Canada
1963	2,998	191	1,243	47	2,597	24	223
1964	5,729	345	2,136	94	5,778	324	286
1965	5,758	293	2,573	148	6,559	440	411
1966	10,050	723	6,263	337	11,501	659	715
1967	11,670	1,305	5,286	190	7,029	1,704	986
1968	11,549	2,530	6,235	690	5,663	2,384	1,465
1969	12,262	4,232	9,180	2,614	6,842	4,317	1,224
1970	14,203	9,151	8,700	3,791	10,815	5,317	1,846
1971	17,327	13,324	10,236	8,336	11,049	8,601	3,396
1972	24,623	17,322	7,570	14,992	15,261	12,358	7,310
1973	47,273	25,338	24,243	22,235	20,824	17,750	17,401

Exports

Year	U.S.A.	United Kingdom	Republic of Germany	Canada	Switzer- land	Taiwan	Australia
1963	31,662	17,618	4,839	1,695	3,985	114	1,949
1964	32,479	16,548	6,764	1,851	3,856	153	2,676
1965	32,140	22,660	9,770	2,207	4,508	183	3,595
1966	42,349	14,840	8,209	2,512	4,909	424	3,125
1967	33,094	17,550	7,068	2,456	4,849	459	3,068
1968	37,166	21,372	7,575	2,152	3,896	217	3,341
1969	37,390	13,323	8,215	2,721	4,320	1,259	4,009
1970	41,951	16,835	9,082	3,932	3,735	1,830	5,322
1971	40,107	15,763	6,917	4,833	3,507	2,071	4,971
1972	59,753	12,622	7,680	5,963	4,553	2,996	4,741
1973	61,664	10,520	8,871	7,437	6,146	5,939	5,363

BY COUNTRY, 1963~1973

Unit : Million yen

Thailand	Mexico	Australia	Spain	Malaysia (Malaya 11 shires)	U.S.S.R	Hong kong	Others	Total
427	2,792	779	428	34	237	1,909	7,457	21,386
1,098	3,464	1,126	1,004	15	980	1,383	8,504	32,266
1,404	3,734	1,192	2,074	14	1,544	2,101	9,177	37,422
2,703	4,334	1,782	2,562	127	2,260	2,800	13,516	60,332
3,845	7,320	2,069	1,812	526	2,839	3,112	19,273	68,966
4,195	5,437	2,486	1,111	733	2,278	3,958	21,421	72,135
5,825	5,786	5,225	1,049	1,636	2,791	5,349	25,511	93,843
5,651	7,355	5,779	2,519	1,869	3,238	3,819	30,585	114,628
7,902	7,856	7,206	9,332	3,951	2,936	5,651	26,242	153,345
10,295	7,102	8,516	8,763	4,823	2,481	5,485	43,437	190,338
14,082	12,323	10,795	9,444	6,329	6,067	5,879	60,091	300,074

Unit : Million yen

Philip- pines	Hong kong	Puerto Rico	Spain	Nether- land	Italy	Singa Pore	Others	Total
2,941	2,373	2,900	521	5,836	5,970	745	18,607	101,755
4,197	4,112	5,300	288	3,930	5,124	409	24,320	111,987
3,348	2,313	4,890	1,197	4,166	6,064	586	21,572	118,997
4,753	3,313	7,199	1,496	4,006	9,692	870	22,643	130,338
7,064	2,606	4,060	1,027	4,482	6,212	1,327	22,109	117,411
7,108	2,852	3,189	1,397	2,603	5,385	1,365	26,599	126,217
5,752	4,048	2,326	1,322	3,145	4,452	1,962	30,637	124,881
5,760	4,123	3,116	1,831	4,982	5,851	5,220	27,147	140,717
6,549	3,011	5,896	2,060	6,985	4,779	2,834	36,379	146,662
5,200	4,053	6,019	2,431	4,992	3,400	2,328	35,448	162,179
5,301	4,662	4,413	4,140	4,088	4,046	3,463	37,441	173,494

15. VALUE OF IMPORTS AND EXPORTS

(by Country, and by Commodity)

A. Imports

Origin	Live animals	Fresh and frozen			Salted, dried and smoked
		Shrimps	Skipjack, Tunas, Marlins	Others	
Total	17,752	118,207	14,170	71,137	42,059
Republic of Korea	3,796	2,138	6,124	18,621	5,530
Taiwan	11,140	4,407	4,900	2,172	294
U.S.A.	156	854	556	12,526	8,721
Indonesia	48	20,237	17	27	1,192
P.R. China	156	6,371	21	2,131	10,253
India	-	17,452	-	15	4
Canada	2	54	176	4,551	12,564
Thailand	87	9,604	16	2,394	225
Mexico	-	11,830	-	3	60
Australia	-	7,343	77	1,029	-
Spain	-	-	2	9,237	-
Malaysia(Malaya ll shires)	3	4,192	56	111	1,906
U.S.S.R.	-	823	-	4,243	99
Hong kong	237	4,075	1	849	397
Others	2,127	28,827	2,224	13,228	814

B. Exports

Destination	Frozen		Salted and dried	Canned		
	Skipjack, Tunas, Marlins	Others		Jack mackerel, Mackerel	Salmons	Saury
Total	21,632	44,688	4,745	26,259	10,419	70
U.S.A.	14,638	24,991	820	2,900	430	25
United Kingdom	-	596	8	524	5,723	-
Republic of Germany	2	304	16	527	2	-
Canada	-	534	35	80	0	0
Switzerland	-	22	0	6	8	-
Taiwan	4	120	560	-	-	-
Australia	-	1,668	3	281	2,614	-
Philippines	-	-	-	4,815	-	-
Hong Kong	47	24	2,723	28	-	-
Puerto Rico	4,404	-	-	3	-	-
Spain	595	1,274	4	-	0	-
Netherland	-	408	4	290	703	-
Italy	328	2,866	0	174	-	-
Singa Pore	1	51	456	2,727	4	-
Others	1,613	11,830	116	13,904	935	45

OF FISHERY PRODUCTS, 1973

Unit : Million yen

Raw agar- agar	Fish meals	Pearls	Oil and fat	Prepared	Dried seaweeds	Others	Total
1,309	8,738	2,175	445	14,784	2,958	6,340	300,074
-	148	-	3	5,981	2,958	1,974	47,273
122	-	-	5	2,198	-	100	25,338
-	-	6	2	1,060	-	362	24,243
33	-	70	-	25	-	586	22,235
-	147	61	-	1,497	-	187	20,824
9	123	14	-	121	-	12	17,750
6	16	-	-	26	-	6	17,401
-	640	49	-	1,058	-	9	14,082
51	-	-	-	226	-	153	12,323
-	-	1,442	-	858	-	46	10,795
-	-	-	102	4	-	99	9,444
-	-	-	-	60	-	1	6,329
-	621	-	27	251	-	3	6,067
-	5	51	-	204	-	60	5,879
1,088	7,038	482	306	1,215	-	2,742	60,091

Unit : Million yen

			Oil and fat		Pearls	Others	Total
Tunas	Crabs	Others	Whale Oil	Others			
24,440	315	5,714	1,693	3,048	17,867	12,604	173,494
8,470	29	2,009	54	2,034	2,143	3,121	61,664
3,161	0	66	-	20	226	196	10,520
1,890	-	39	-	4	5,529	558	8,871
5,471	1	1,119	-	20	111	66	7,437
1,923	-	79	-	1	4,085	22	6,146
-	-	-	6	18	-	5,231	5,939
58	17	261	-	0	134	327	5,363
-	-	475	1	-	-	10	5,301
14	-	69	-	1	1,610	146	4,662
-	-	-	-	-	2	4	4,413
0	-	1	-	1	1,286	979	4,140
177	106	55	1,511	553	138	143	4,088
67	-	85	-	1	203	322	4,046
2	-	92	-	0	93	37	3,463
3,207	162	1,364	121	395	2,307	1,442	37,441

16. FOOD BALANCE SHEET ON

Description	1968	1969	1970	1971	1972	1973
[FISH AND SHELLFISH](live weight base)						
Domestic production	7,353	7,385	7,886	8,374	8,675	9,072
For domestic consumption						
Fresh and frozen	2,083	1,920	2,022	2,047	2,157	2,135
Dried, salted and smoked	1,417	1,489	1,400	1,522	1,603	1,606
Kneaded	1,877	1,935	2,320	2,338	2,399	2,450
Fish sausage	231	241	242	247	245	247
Canned	96	94	78	195	112	154
Feeds	1,649	1,706	1,824	2,025	2,159	2,480
For exports	811	783	908	949	1,032	991
Fresh and frozen	208	162	190	200	265	341
Canned	519	504	588	555	624	551
Others for food use	20	21	13	14	15	14
Feeds	64	96	117	180	124	85
Total	8,164	8,168	8,794	9,323	9,707	10,063
Imports						
For food use	212	236	294	448	495	664
For feeds	715	514	451	103	270	415
Total	927	750	745	551	765	1,079
Domestic supply						
For food use	5,916	5,915	6,356	6,797	7,011	7,256
Domestic production	5,704	5,679	6,062	6,349	6,516	6,592
Imports	212	236	294	448	495	664
For feeds	2,364	2,220	2,275	2,128	2,429	2,895
Domestic production	1,649	1,706	1,824	2,025	2,159	2,480
Imports	715	514	451	103	270	415
Total	8,280	8,135	8,631	8,925	9,440	10,151
[WHALE]						
Domestic production						
For domestic consumption.....	136	136	110	114	107	92
For exports	20	20	15	11	2	0
Total	156	156	125	125	109	92
Imports						
Total	11	13	15	18	18	25
Domestic supply						
For food use	136	136	110	114	107	92
For feeds	11	13	15	18	18	25
Total	147	149	125	132	125	117

FISHERY PRODUCTS, 1968~1973

Unit : Thousand metric tons

Description	1968	1969	1970	1971	1972	1973
[SEAWEED] (dried weight base)						
Domestic production						
For domestic consumption	97	86	99	112	109	127
For exports	3	3	5	5	3	4
Total	101	89	104	117	112	131
Imports						
Total	14	15	15	18	19	30
Domestic supply						
For food use	90	77	96	110	104	127
For feeds	22	24	18	20	24	30
Total	112	101	114	130	127	157
Per capita food supply (Unit: Kgs)						
Fish and shellfishes	58.4	57.7	61.3	64.7	65.3	66.7
Whales	1.3	1.3	1.1	1.1	1.0	0.8
Seaweeds	0.9	0.8	0.9	1.0	1.0	1.2

17. AVERAGE CONSUMPTION IN QUANTITY OF FISHERY

A). Workers household (Cities With population of 50,000 or over)

Unit : grams

Item	1968	1969	1970	1971	1972	1973
Fresh and frozen						
Cod, Alaska pollack	1,248	1,208	1,208	1,131	1,058	1,018
Flounders, halibuts	3,427	3,827	2,817	2,932	2,816	2,468
Jack mackerel	5,196	4,957	4,177	4,246	3,611	2,968
Mackerel	5,243	4,879	4,431	4,029	3,171	2,676
Salmons, trouts	1,452	1,257	1,625	1,765	1,668	1,174
Sardines, anchovies	1,436	1,425	1,268	1,806	1,626	1,772
Saury	1,336	604	1,044	937	1,543	3,144
Sea breams	1,657	1,393	1,425	1,249	1,053	973
Shellfishes	5,092	5,080	4,935	5,015	4,690	4,085
Skipjack	808	771	775	612	906	1,079
Squids, cuttlefishes.....	8,245	7,581	7,646	6,320	7,627	7,420
Tunas, marlins	3,265	3,204	3,199	3,178	3,194	3,037
Yellowtail	1,829	1,835	1,978	1,988	2,044	2,202
Others	---	---	---	---	---	---
Processed fishery products						
Boiled and dried	946	931	897	793	761	727
Canned (case)	12.14	11.08	8.89	9.59	10.46	10.70
Cured	769	742	716	640	645	682
Dried "nori".....	---	---	---	---	---	---
Dried "Kombu" and "Wakame" kelp.	1,671	1,586	1,724	1,735	1,795	1,872
Dried squids	293	303	274	219	278	334
Fish sausage	2,949	2,892	2,469	2,205	1,607	1,144
Kneaded	---	---	---	---	---	---
Salted salmons and trouts ...	2,312	2,447	3,019	3,269	3,332	3,454
Others	---	---	---	---	---	---
Whale meat	2,051	1,794	1,557	1,385	1,329	1,306
Beef	6,438	7,012	7,551	7,996	8,259	7,605
Pork	13,938	13,309	14,754	15,765	16,403	18,040
Chicken	7,324	8,265	9,040	9,065	9,770	10,401
Ham, sausage	6,863	7,154	7,552	7,941	8,858	9,199
Milk, eggs	---	---	---	---	---	---
Seasonings	853	840	873	813	753	748
Expence for dining out	---	---	---	---	---	---
Number of family member	4.05	3.97	3.95	3.93	3.90	3.88

PRODUCTS PER HOUSEHOLD, 1968~1973

B). Farm household

Unit : grams

Item	1968	1969	1970	1971	1972	1973
Fishery products						
Fresh and frozen						
Cod, Alaska pollack	2,660	2,320	3,330	1,910	2,210	2,190
Flounders, halibuts	3,510	3,180	3,650	2,880	2,800	2,470
Jack mackerel	7,330	7,410	6,460	5,350	3,092	2,650
Mackerel	14,800	15,920	14,700	10,740	10,970	8,000
Salmons, trouts	---	---	---	---	---	---
Sardines, anchovies	2,480	2,580	2,510	3,270	3,010	3,450
Saury	2,690	1,450	2,090	1,770	2,960	5,860
Sea breams	990	1,150	1,270	1,030	930	620
Shellfishes	3,830	3,990	5,150	5,690	4,830	4,550
Skipjack	3,210	3,560	3,280	2,130	3,010	2,850
Squids, cuttlefishes	10,920	10,110	8,910	6,250	8,610	7,040
Tunas, marlins	2,680	3,300	3,860	2,860	2,750	2,310
Yellowtail	1,000	1,260	1,880	1,570	1,330	1,800
Others	---	---	---	---	---	---
Processed fishery products						
Boiled and dried	3,240	3,100	3,450	3,000	2,890	2,480
Canned	5,540	5,010	4,890	4,490	3,720	3,310
Cured	260	260	310	320	270	290
Dried "nori".....	---	---	---	---	---	---
Dried "Kombu"and"Wakame" kelp ..	2,350	2,630	2,370	1,940	2,050	2,330
Dried squids	520	540	500	420	490	560
Fish sausage	5,970	5,740	5,390	4,660	4,370	4,130
Kneaded	10,290	12,530	13,220	13,130	13,140	13,050
Salted salmons and trouts	2,590	2,700	3,590	3,790	3,670	3,640
Others	---	---	---	---	---	---
Whale meat	2,750	2,650	2,170	1,760	1,840	1,900
Beef	2,260	2,780	3,160	3,640	3,670	3,060
Pork	6,550	7,490	9,660	9,990	10,460	11,510
Chicken	5,740	7,080	7,960	9,010	8,640	20,880
Ham, sausage	2,560	3,020	3,500	3,970	3,870	4,020
Milk, eggs	---	---	---	---	---	---
Seasonings	970	1,030	1,040	1,110	1,240	1,190
Expense for dining out	---	---	---	---	---	---
Number of family member	5.01	4.92	4.84	4.74	4.66	4.62

18. AVERAGE CONSUMPTION IN VALUE OF FISHERY

A) Workers household (Cities With population of 50,000 or over)

Unit : yen

Item	1968	1969	1970	1971	1972	1973
Net income	1,081,584	1,206,396	1,384,548	1,526,820	1,680,744	2,031,528
Food expense	300,451	323,899	361,499	387,646	415,798	477,772
Fishery products	42,949	45,863	53,207	58,777	63,238	70,973
Fresh and frozen	21,270	22,940	27,485	30,916	33,096	35,742
Cod, Alaska pollack	306	328	375	381	386	426
Flounders, halibuts	969	1,096	1,281	1,464	1,527	1,525
Jack mackerel	1,186	1,309	1,439	1,617	1,667	1,662
Mackerel	918	870	915	911	747	741
Salmons, trouts	853	779	1,047	1,153	1,137	957
Sardines, anchovies	301	345	379	582	544	951
Saury	391	266	555	472	698	1,251
Sea breams	933	933	1,079	1,105	1,029	1,056
Shellfishes	1,192	1,355	1,528	1,749	1,969	2,065
Skipjack	392	438	525	526	737	963
Squids, cuttlefishes	1,937	2,028	2,530	2,982	3,461	3,779
Tunas, marlins	2,543	2,750	3,158	3,633	3,929	4,198
Yellowtail	1,216	1,395	1,754	2,008	2,213	2,657
Others	8,133	9,048	10,920	12,333	13,052	13,511
Processed fishery products	20,989	22,211	24,936	27,068	29,308	34,315
Boiled and dried	417	417	481	503	488	509
Canned	1,014	1,084	1,021	1,178	1,348	1,441
Cured	583	611	681	726	807	1,003
Dried "nori"	2,636	2,784	3,325	3,315	3,560	4,102
Dried "Kombu" and "Wakame" kelp...	1,012	1,051	1,300	1,455	1,546	1,729
Dried squids	195	220	260	264	350	477
Fish sausage	788	785	679	620	451	366
Kneaded	2,574	2,765	3,033	3,307	3,418	3,908
Salted salmons and trouts	1,707	2,025	2,525	2,819	3,028	3,879
Others	10,063	10,469	11,631	12,881	14,312	16,901
Whale meat	690	712	786	793	834	916
Beef	7,289	8,274	9,275	10,505	11,819	14,252
Pork	10,355	11,196	12,203	13,453	15,021	18,604
Chicken	4,664	5,341	5,909	6,215	6,775	8,237
Ham, sausage	4,416	4,801	5,531	6,100	7,038	8,488
Milk, eggs	24,242	25,589	26,413	26,548	27,366	29,644
Seasonings	1,350	1,303	1,323	1,224	1,092	1,072
Expense for dining out	28,895	34,084	39,115	42,978	48,984	58,085
Number of family member	4.05	3.97	3.95	3.93	3.90	3.88

PRODUCTS PER HOUSEHOLD, 1968~1973

B).Farm household

Unit : yen

Item	1968	1969	1970	1971	1972	1973
Net income	1,125,700	1,250,000	1,393,200	1,537,700	1,852,900	2,322,100
Food expense	302,000	326,600	353,500	377,700	407,100	481,000
Fishery products	37,996	41,727	47,211	51,231	58,521	75,477
Fresh and frozen	19,324	20,779	23,289	25,100	29,220	33,678
Cod, Alaska pollack	446	429	599	479	902	720
Flounders, halibuts	794	837	1,154	1,008	1,172	1,216
Jack mackerel	1,274	1,347	1,478	1,386	1,232	1,163
Mackerel	2,163	2,204	2,395	1,965	1,954	1,919
Salmons, trouts	---	---	---	---	---	---
Sardines, anchovies	417	469	557	680	782	954
Saury	489	347	576	479	902	1,769
Sea breams	466	592	742	857	701	754
Shellfishes	375	487	629	894	833	1,177
Skipjack	821	1,041	1,082	882	1,443	1,614
Squids, cuttlefishes	1,879	2,061	2,397	2,192	3,186	3,410
Tunas, marlins	1,865	2,469	2,878	2,847	3,487	3,521
Yellowtail	554	776	1,289	1,234	1,232	1,860
Others	7,781	7,720	7,513	10,197	11,394	13,601
Processed fishery products	17,919	20,206	23,127	25,280	28,442	40,619
Boiled and dried	1,102	1,223	1,458	1,505	1,538	1,741
Canned	1,210	1,102	1,080	1,047	1,070	1,234
Cured	252	323	345	406	437	549
Dried "nori"	1,556	1,953	2,322	2,642	2,947	3,814
Dried "Kombu" and "Wakame" kelp.	594	683	1,507	1,571	1,784	2,295
Dried squids	312	344	379	523	739	972
Fish sausage	1,501	1,526	1,509	1,309	1,286	1,538
Kneaded	2,293	2,733	3,224	3,512	3,626	4,855
Salted salmons and trouts	1,455	1,637	2,239	2,656	2,819	3,488
Others	7,896	8,682	9,064	10,109	12,196	20,133
Whale meat	753	742	795	851	859	1,180
Beef	2,297	2,842	3,467	4,191	5,166	5,892
Pork	4,362	5,142	6,260	7,056	8,558	11,053
Chicken	2,452	3,137	3,675	4,226	4,663	13,240
Ham, sausage	1,504	1,784	2,221	2,635	2,946	3,628
Milk, eggs	18,890	22,960	24,038	26,094	28,201	22,376
Seasonings	1,274	1,308	1,430	1,482	1,652	1,675
Expense for dining out	14,773	16,873	19,515	20,763	24,633	28,119
Number of family member	5.01	4.92	4.84	4.74	4.66	4.62

Reference Table 1. CATCH BY COUNTRY OF
THE WORD, 1968~1973

Unit : Thousand tons

Country Names	1968	1969	1970	1971	1972	1973
Total	63,900	62,700	70,000	70,200	65,500	65,700
Japan (incl. Okinawa)	8,694	8,639	9,366	9,945	10,273	10,702
U.S.S.R.	6,082	6,498	7,252	7,337	7,757	8,619
China (incl. Taiwan)	5,392	6,096	6,868	7,530	7,574	7,574
Norway	2,856	2,491	2,980	3,075	3,163	2,975
U.S.A.	2,452	2,489	2,777	2,820	2,650	2,670
Peru	10,556	9,244	12,613	10,606	4,768	2,299
India	1,526	1,607	1,756	1,852	1,637	1,958
Thailand	1,089	1,270	1,448	1,587	1,679	1,692
Republic of Korea	841	879	934	1,074	1,339	1,655
Spain	1,533	1,522	1,539	1,505	1,617	1,570
Denmark	1,467	1,275	1,227	1,401	1,443	1,465
South Africa	2,045	1,850	1,562	1,165	1,123	1,332
Indonesia	1,159	1,214	1,229	1,245	1,268	1,300
Philippines	945	978	992	1,050	1,132	1,249
Canada	1,499	1,405	1,389	1,290	1,169	1,152
United Kingdom	1,040	1,083	1,099	1,107	1,082	1,144
Iceland	601	690	734	685	727	906
D.P.R. Korea	800	800	800	800	800	800
France	803	771	764	742	783	797
Republic of Viet-Nam	410	464	517	588	678	714
Others	11,543	11,433	11,654	12,323	12,846	13,127

Reference Table 2. CATCH BY SPECIES OF THE WORLD, 1968~1973

Unit : Thousand tons

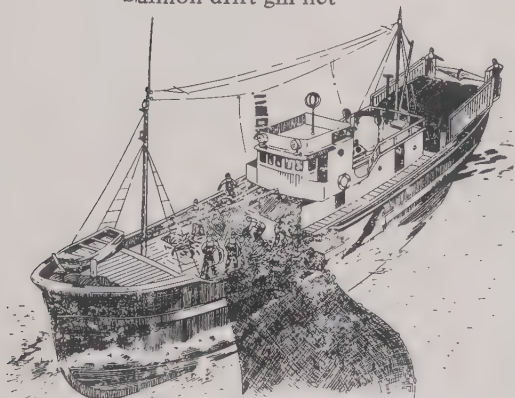
Species	1968	1969	1970	1971	1972	1973
Grand Total	63,900	62,700	70,000	70,200	65,500	65,700
Fishes	57,927	57,026	64,001	64,235	59,200	59,259
Carp, etc.	316	324	347	357	413	419
Tilapias, etc.	62	114	197	202	249	232
Miscellaneous fresh water fishes	6,980	7,166	7,710	8,226	8,186	8,388
Sturgeons, etc.	21	21	21	23	24	23
River eels	51	51	45	45	39	40
Salmones, etc.	1,181	1,402	2,096	2,175	2,452	2,601
Shads, etc.	653	672	832	805	741	672
Miscellaneous diadromous fishes	3	42	44	50	72	73
Flounders, etc.	1,156	1,283	1,307	1,383	1,297	1,237
Cod, etc.	9,617	9,936	10,531	10,685	11,449	11,816
Redfishes, etc.	3,330	3,170	3,798	3,869	3,819	3,880
Jacks, etc.	2,009	1,995	2,424	2,994	2,847	3,363
Herrings, etc.	20,463	18,113	21,405	19,527	13,031	11,081
Tunas, etc.	1,582	1,639	1,613	1,634	1,513	1,707
Mackerels, etc.	2,872	3,018	3,146	3,247	3,122	3,340
Sharks, etc.	476	500	509	515	512	564
Miscellaneous marine fishes	7,155	7,580	7,976	8,498	9,334	9,823
Crustaceans	1,480	1,508	1,632	1,675	1,662	1,784
Freshwater crustaceans	53	56	56	53	52	58
Crabs, etc.	377	350	391	370	356	365
Shrimps, lobsters, etc.	984	1,020	1,106	1,170	1,181	1,278
Krill, etc.	...	...	...	...	(5)	(5)
Miscellaneous marine crustaceans	66	82	79	82	73	83
Molluscs	3,482	3,242	3,312	3,218	3,546	3,396
Freshwater molluscs	45	52	59	37	48	46
Clams, shellfishes, etc.	1,984	1,918	1,899	1,911	2,041	2,071
Squids, etc.	1,211	981	944	900	1,098	1,029
Miscellaneous marine molluscs	242	291	410	370	359	250
Other aquatic animals	133	103	131	120	135	122
Aquatic plants	848	765	875	919	889	1,088

Appendix 1 .

CLASSIFICATION OF SEA FISHERY TYPE

Classification	Classification shown in this bulletin	Classification published by Ministry of Agriculture and Forestry
A. Gill nets	King crab gill net Salmon drift gill net Gill nets	Mother ship type king crab gill net Mother ship type salmon drift gill net (Distant waters) Salmon drift gill net of one boat operation. (Coastal) Sardine drift gill net. Herring gill net and other.

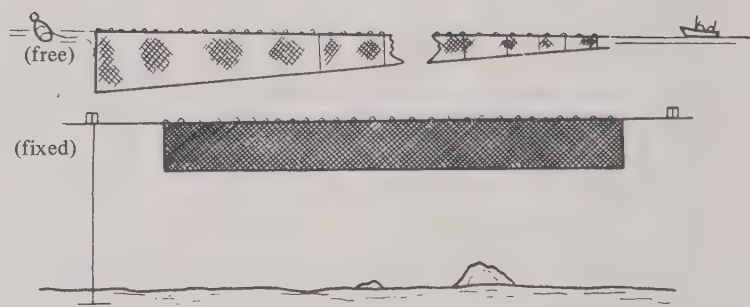
Salmon drift gill net



① on bottom



② in surface



③ in middle



B. Purse seines

Purse seines

Purse seine of one-boat and
two-boats operation.
Semi-surrounding net.
Other surrounding nets.



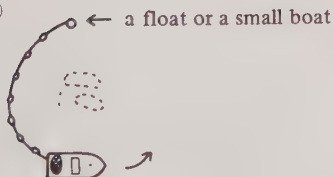
(1) One-boat operation

①

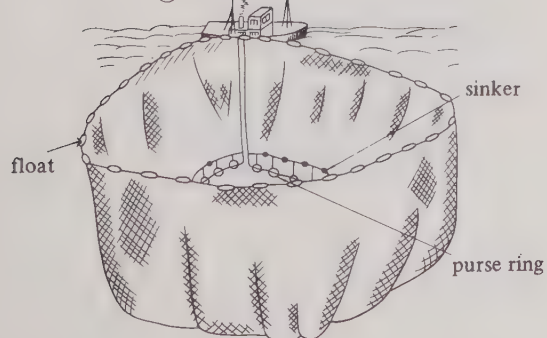


← shoal of fish

②



③



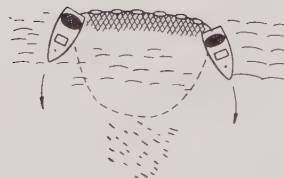
(2) Two-boats operation

①

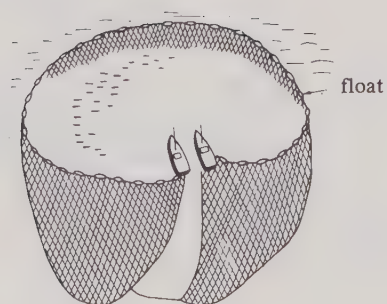


← shoal of fish

②



③

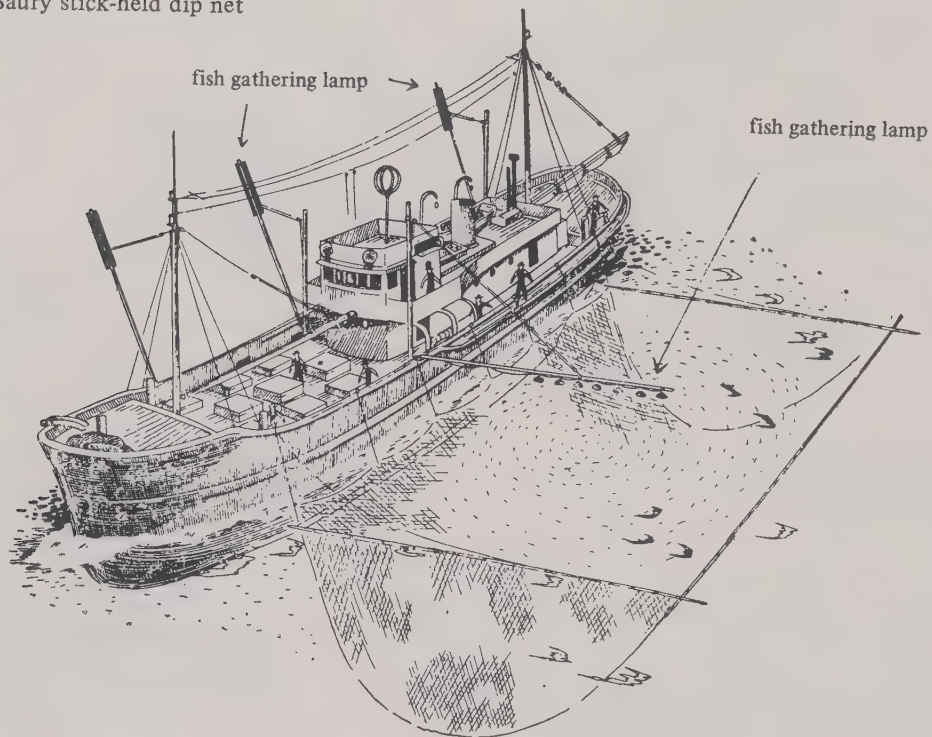


C. Lift nets

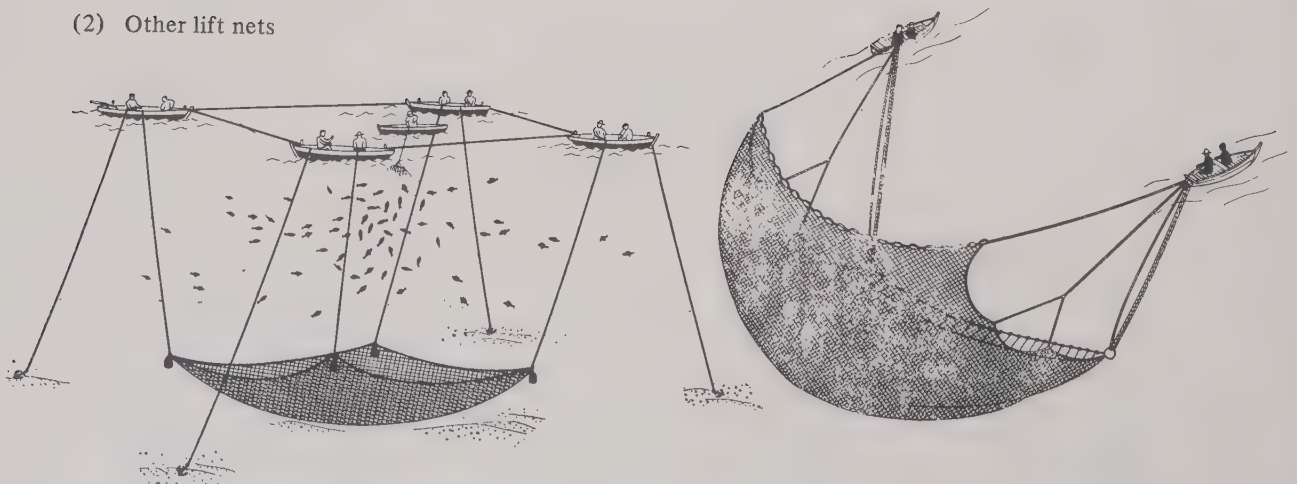
Saury stick-held dip net
Other lift nets

Saury stick-held dip net
Atka mackerel square lift net
Other lift nets

(1) Saury stick-held dip net

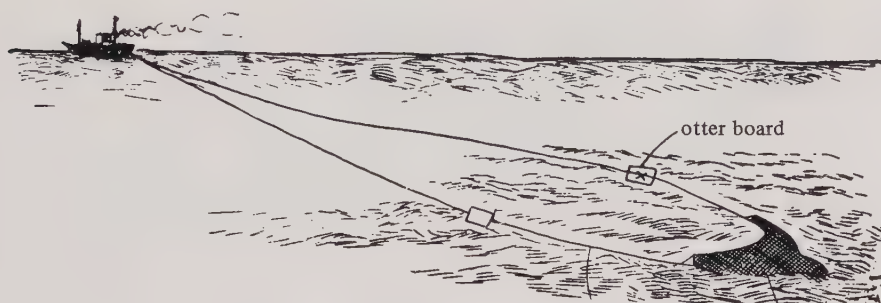


(2) Other lift nets



D. Trawls	Large trawls	Mother ship type trawl (Bering sea) Mother ship type trawl (Okhotsk sea) Otter trawl on Distant waters Otter trawl in Bering sea Otter trawl in southern water Otter trawl, west of $128^{\circ}30'E$ in East China Sea
	Medium trawls	Large trawl, west of $128^{\circ}30'E$ in East China Sea Medium trawl of one-boat and two boats operation.
	Small trawls	Small trawls

(1) Large trawls (otter trawl)



(2) Medium trawls

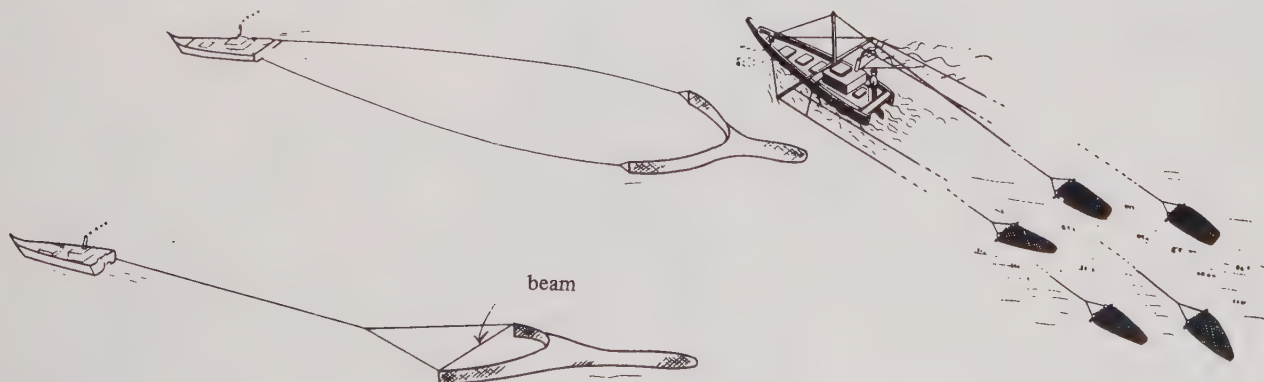
① one-boat operation



② two-boats operation

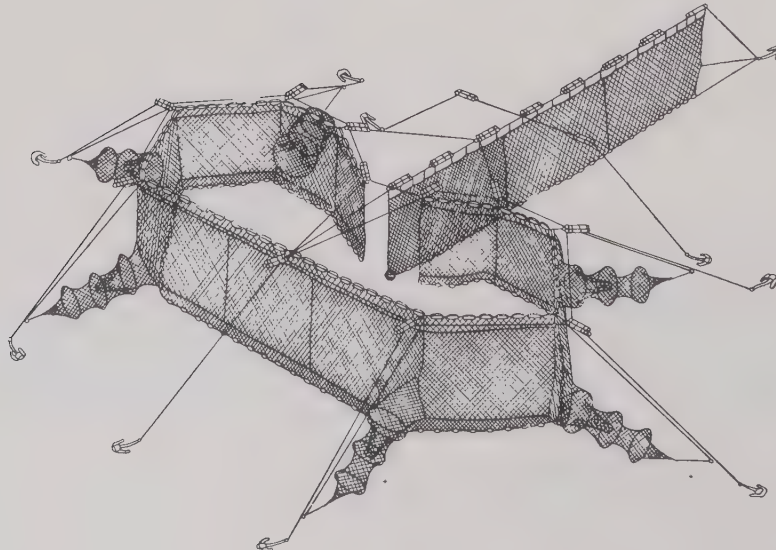
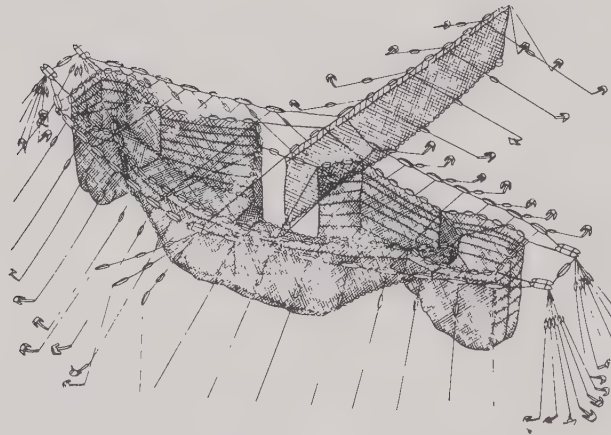
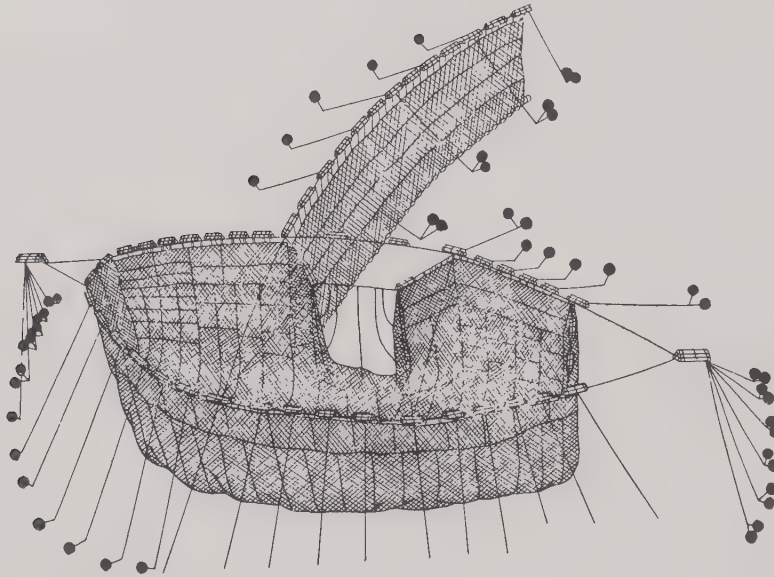


(3) small trawls



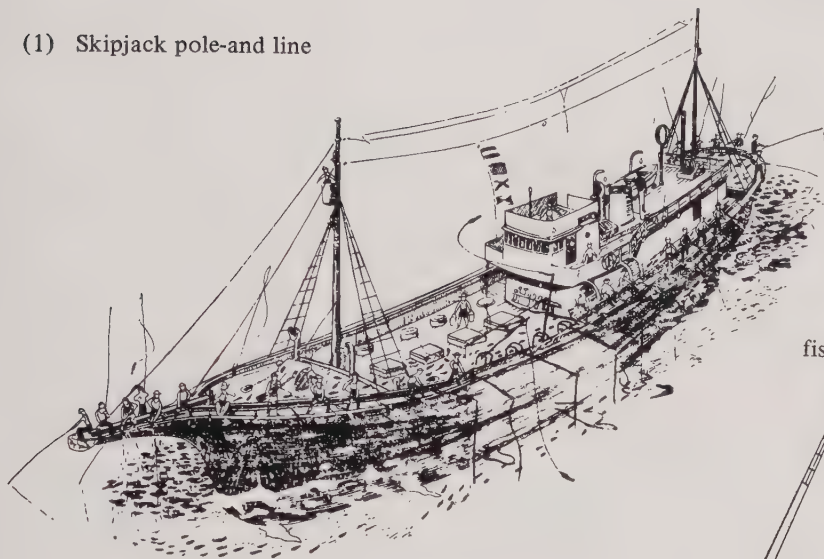
E. Set nets

Set nets

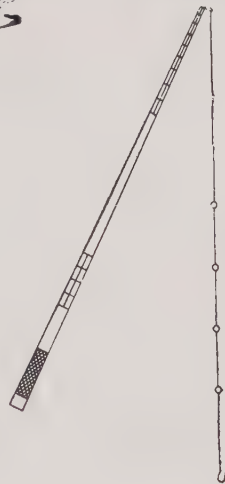
Large set nets
Small set nets

F. Anglings

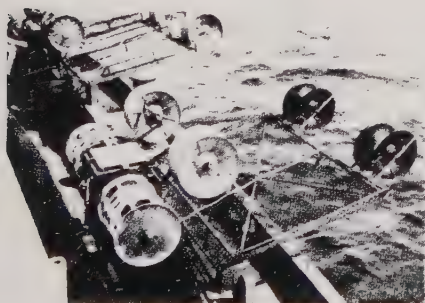
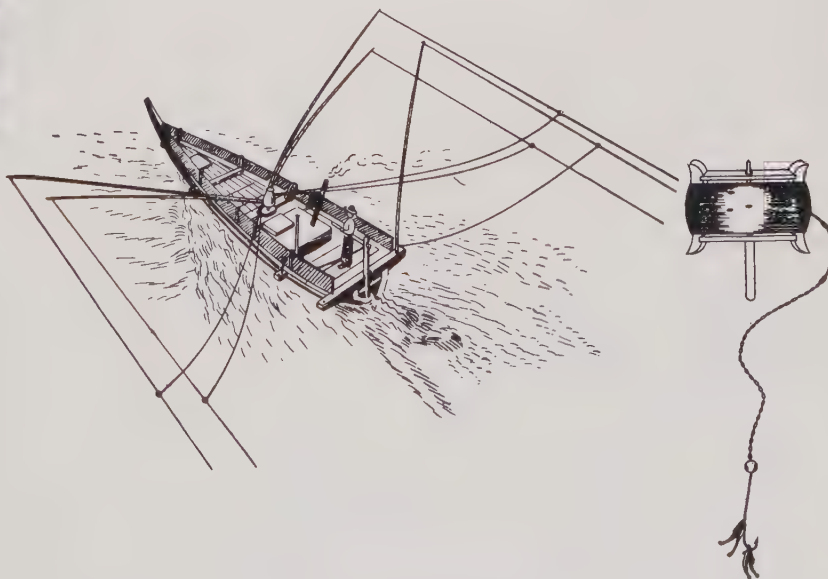
Skipjack pole-and-line

Squid angling
Other anglingsSkipjack pole-and-line (Distant waters
and Coastal)
Squid angling
Mackerel pole-and-line, other kind of
mackerel anglings and other anglings.**(1) Skipjack pole-and line**automatic skipjack
angling machine

fishing rod

**(2) Squid angling**

Automatic squid angling machine

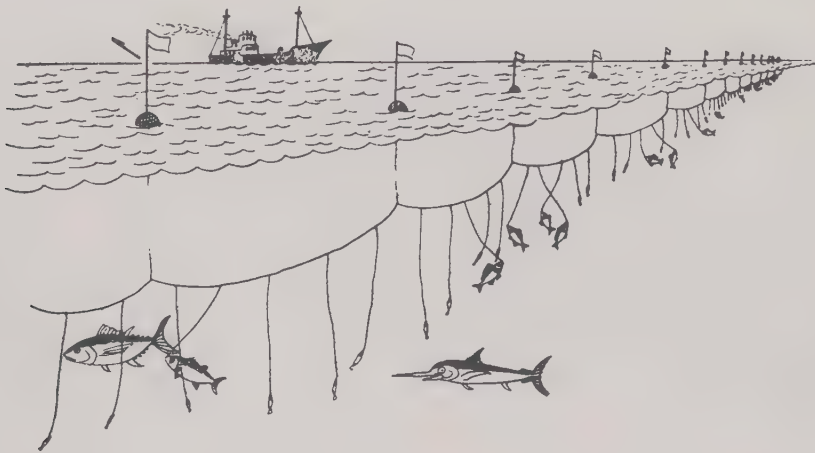
**(3) Other anglings (trolling)**

artificial bait



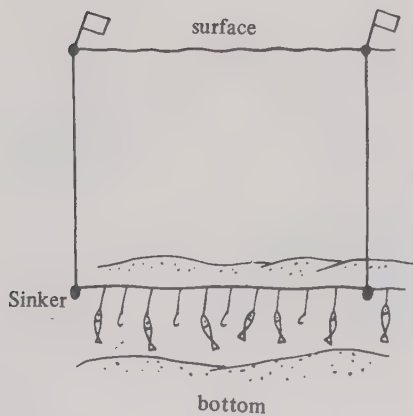
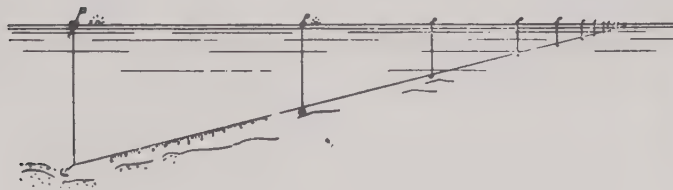
G. Long lines	Tuna long line	Mother ship type tuna long line Tuna long line operated in Atlantic Ocean. Tuna long line based at foreign ports. Tuna long line based at domestic ports. Alaska pollack long line, Salmon long line and other.
	Other long lines	

(1) Tuna long line

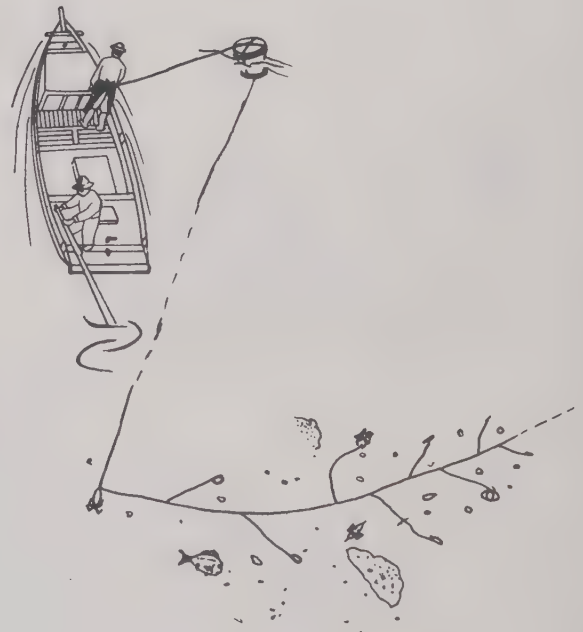


(2) Other long lines

① Alaska pollack long line



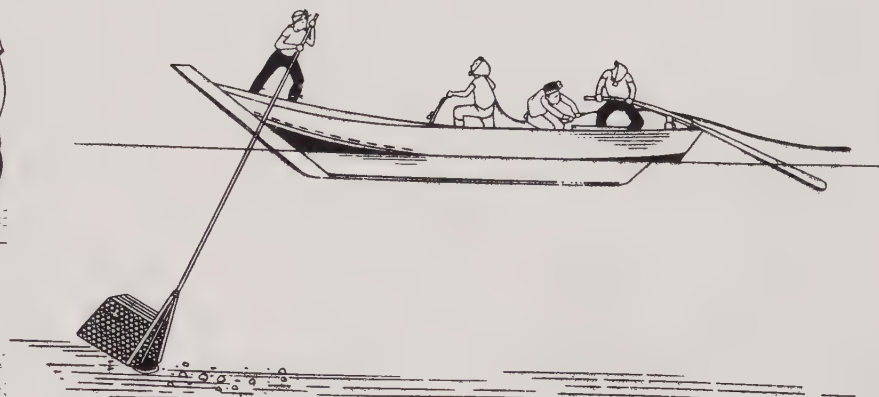
② Sea beam long line



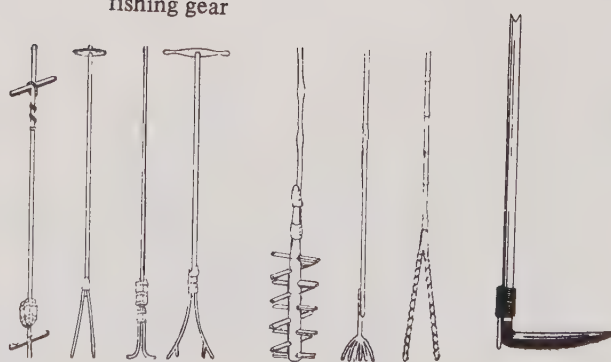
H. Collectings

Shellfish collectings
Seaweed collectings

Shellfish collectings.
Seaweed collectings.

(1) Shellfish collectings**(2) Seaweed collectings**

fishing gear

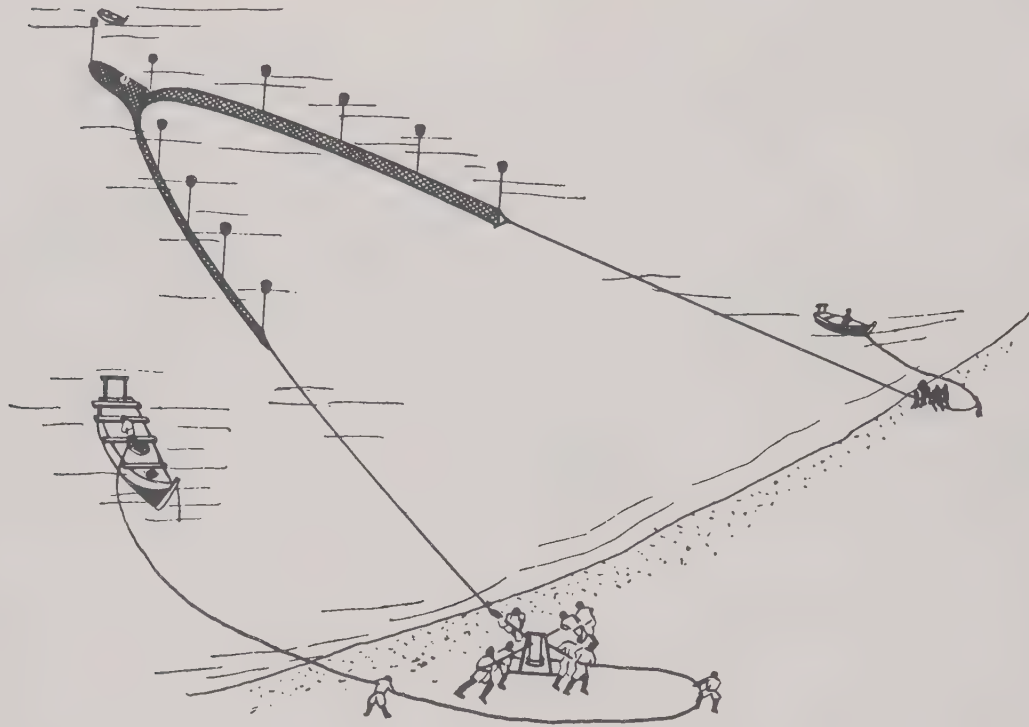


I. Other fisheries

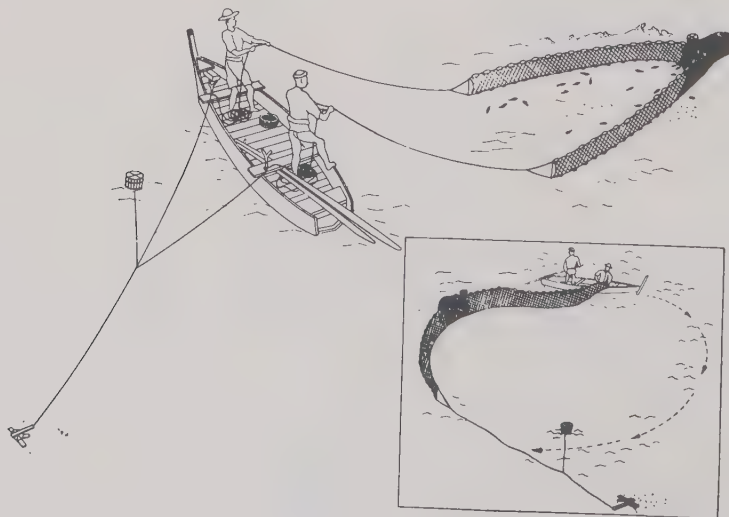
Others

Beach seine, "Patchi" and other haul seine. Dart, other fisheries.

(1) Beach seine



(2) Other haul seine ("Patchi" is a kind of haul seine.)





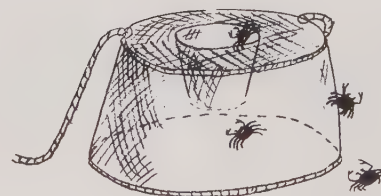
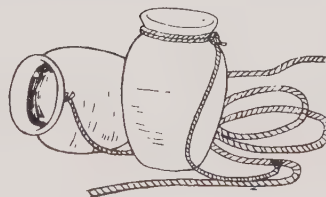
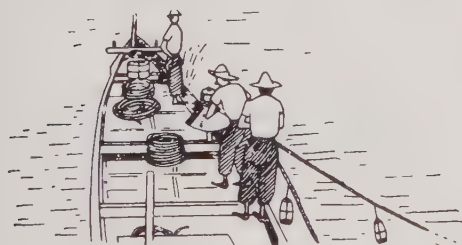
(4) Other fisheries (pot, diving, etc)

pot



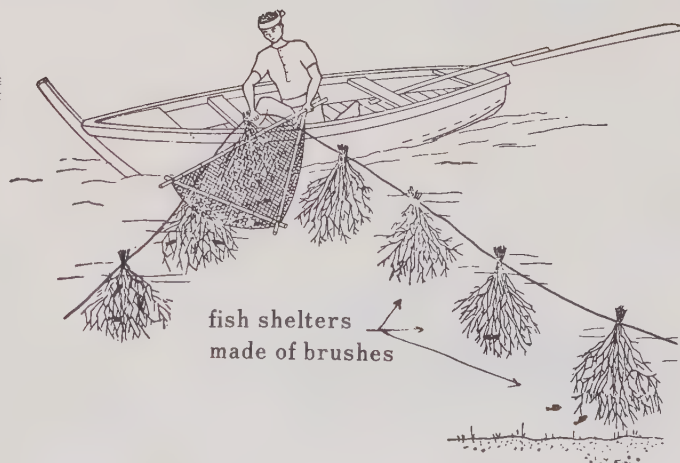
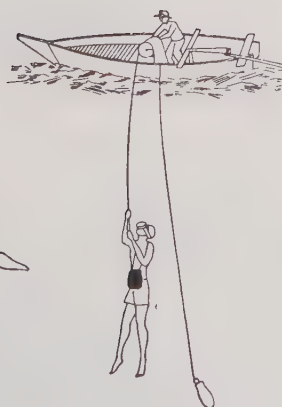
(octopus pot)

(crabs pot)



"Shiba zuke"

Diving



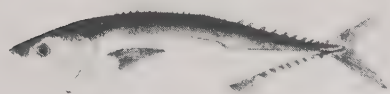
Appendix 2.

IIIUSTRATION OF IMPORTANT FISHES IN JAPAN

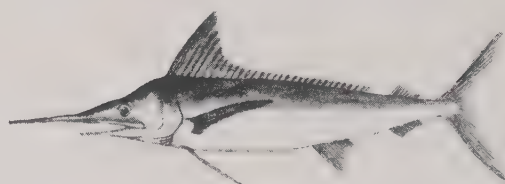
I Sea Fisheries

A. Fishes

Bluefin tuna (English name)
 Maguro (Japanese name)
Thunnus thynnus orientalis (Scientific name)



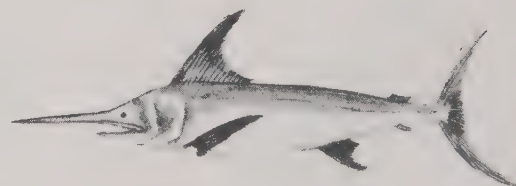
Striped marlin
 Makajiki
Tetrapturus audax



Albacore
 Binnaga
Thunnus alalunga



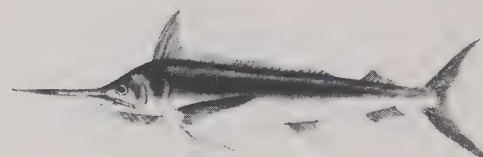
Broadbill swordfish
 Mekajiki
Xiphias gladius



Bigeye tuna
 Mebachi
Thunnus obesus



Blue marlin
 Kurokajiki
Makaira nigricans



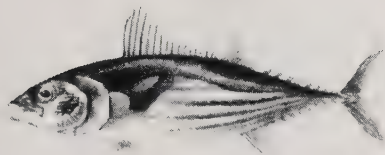
Yellowfin tuna
 Kiwada
Thunnus albacares



Sailfish
 Bashokajiki
Istiophorus orientalis



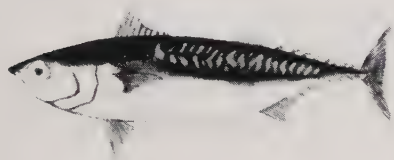
Skipjack
Katsuo
Katsuwonus pelamis



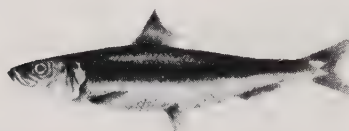
Herring
Nishin
Clupea pallasii



Frigate mackerel
Hirasoda
Auxis thazard



Sardine
Maiwashi
Sardinops melanosticta



Great blue shark
Yoshikirizame
Glyphis glaucus



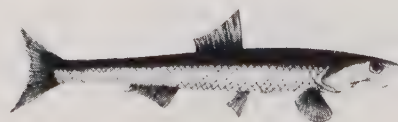
Round herring
Urumeiwashi
Etrumeus micropus



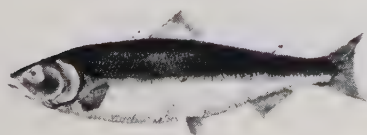
Chum salmon
Sake (Shirozake)
Oncorhynchus keta



Anchovy
Katakuchiiwashi
Engraulis japonica



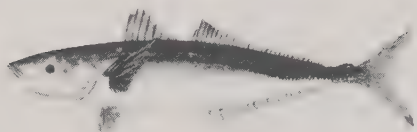
Cherry salmon
Sakuramasu
Oncorhynchus masou var. masou



Jack mackerel
Maaji
Trachurus japonicus



Scad
Muroaji
Decapterus muroadsi



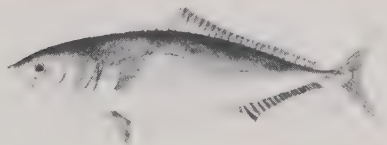
Mackerel
Masaba
Scomber japonicus



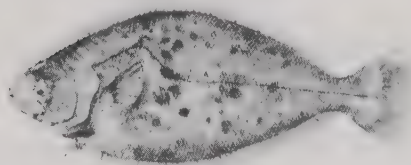
Saury (Saury-pike)
Sanma
Cololabis saira



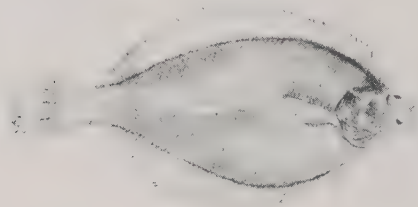
Yellowtail
Buri
Seriola quinqueradiata



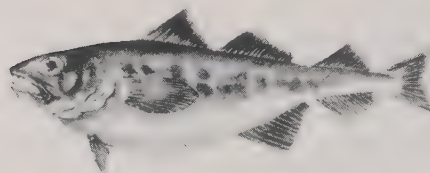
Bastard halibut
Hirame
Paralichthys olivaceus



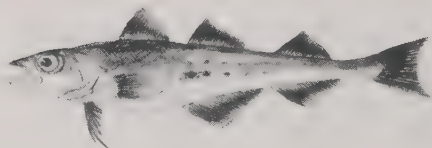
Dab (Flat fish)
Magarei
Limanda herzensteini



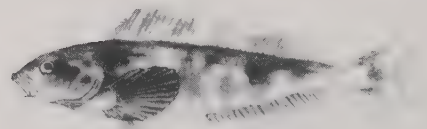
Cod
Madara
Gadus macrocephalus



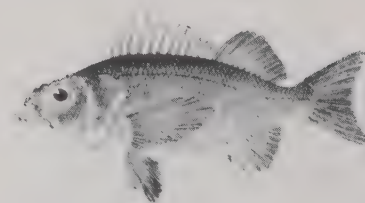
Alaska pollack
Suketodara
Theragra chalcogramma



Atka mackerel
Hokke
Pleurogrammus azonus

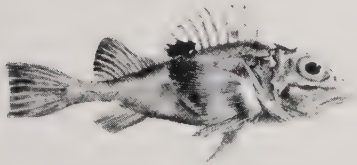


Rock fish
Sangomenuke
Sebastes flammeus



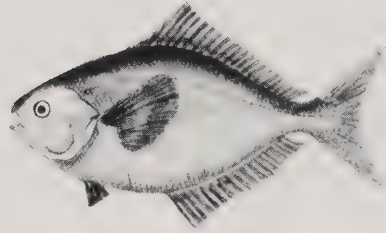
Rock fish

Kichiji

Sebastolobus macrochir

Butter fish

Ibodai

Psenopsis anomala

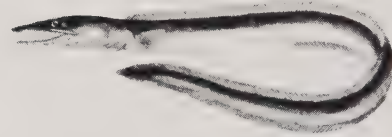
Sand fish

Hatahata

Arctoscopus japonicus

Sharp toothed eel

Hamo

Muraenesox cinereus

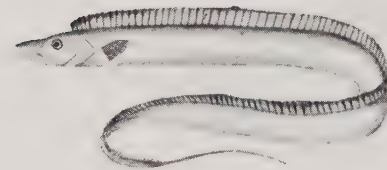
Deep sea smelt

Nigisu

Argentina semifasciata

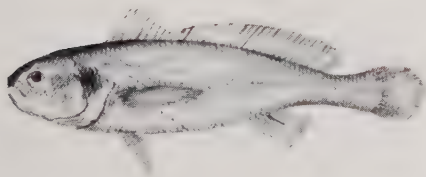
Hairtail

Tachiuo

Trichiurus lepturus

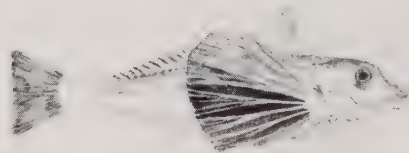
Yellow croaker

Kiguchi

Pseudosciaena manchurica

Gurnard

Hobo

Chelidonichthys kumu

Lizard fish

Maeso

Saurida argyrophanes

Stingray

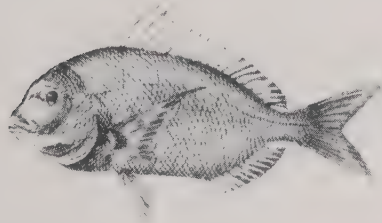
Akaei

Dasyatis akajei

Red sea bream
Madai
Chrysophrys major



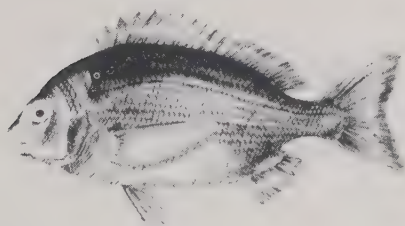
Crimson sea bream
Chidai
Evynnis japonica



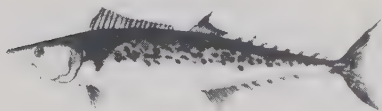
Yellow sea bream
Kidai
Taius tumifrons



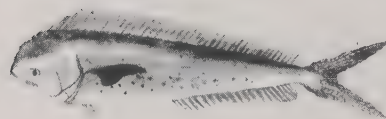
Black sea bream
Kurodai
Mylio macrocephalus



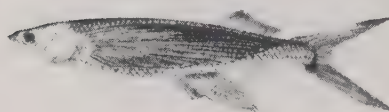
Spanish mackerel
Sawara
Scomberomorus niphonius



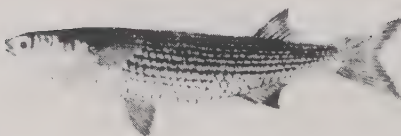
Dolphin fish
Shiira
Coryphaena hippurus



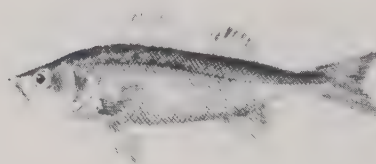
Flyingfish
Tobiuo
Prognichthys agoo



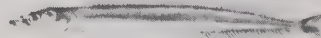
Mullet
Bora
Mugil cephalus



Common sea bass
Suzuki
Lateolabrax japonicus



Sand lance
Ikanago
Ammodytes personatus



B. Crustacea

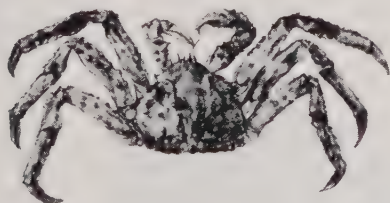
Spiny lobster
Iseebi
Panulirus japonicus



Prawn
Kurumaebi
Penaeus japonicus



King crab
Tarabagani
Paralithodes camtschaticus



Queen crab, Tanner crab
Zuwaigani
Chionoecetes opilio

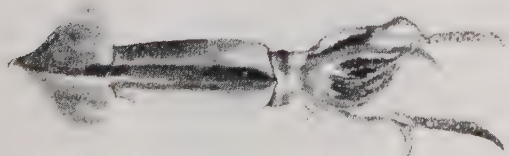


Blue crab
Gazami
Neptunus trituberculatus

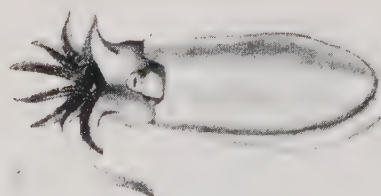


C. Mollusca

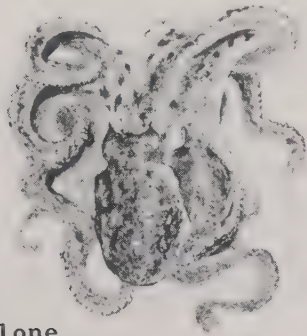
Common squid
Surumeika
Ommastrephes sloani pacificus



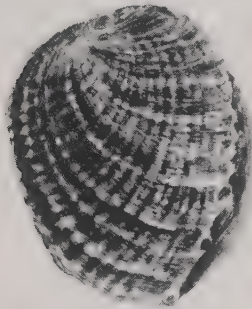
Cuttlefish
Maika
Sepiella maindronide



Octopus (Devilfish)
Madako
Octopus vulgaris



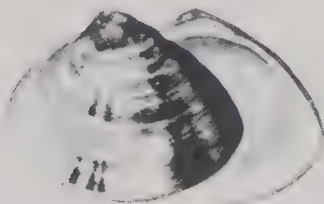
Abalone
Awabi
Haliotis gigantea



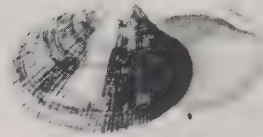
Top shell
Sazae
Turbo cornutus



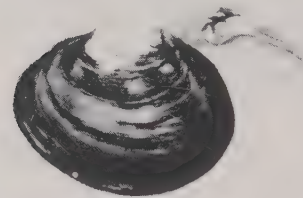
Hard clam
Hamaguri
Meretrix lusoria



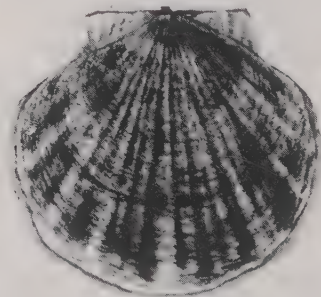
Short necked clam
Asari
Venerupis philippinarum



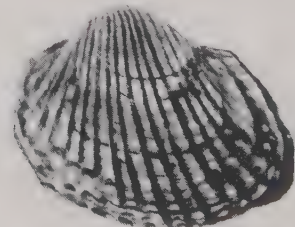
Hen clam
Hokkigai
Macra sachalinensis



Common scallop
Hotategai
Pecten yessoensis

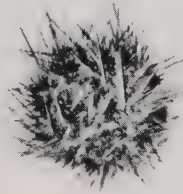


"Mogai" clam
Sarubo
Anadara subcrenata

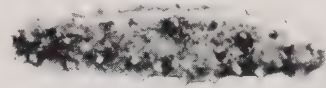


D. Echinodermata

Sea urchin
Murasakiuni
Heliocidaris crassispina



Sea cucumber
Manamako
Stichopus japonicus



E. Marine mammals

(Dolphin)
Sujiiruka
Delphinus delphis delphis



Sea lion
Ashika
Zalophus lobatus



F. Sea weeds

Kelp
Makonbu
Laminaria japonica



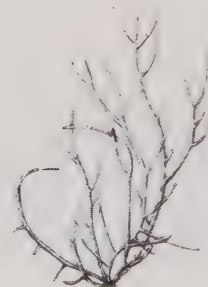
Agar-agar
Tengusa (Makusa)
Gelidium Amansii



Seaweed
Wakame
Undaria pinnatifida

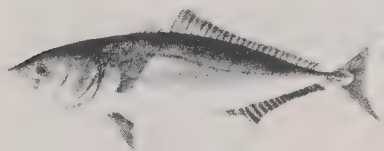


Seaweed
Honfunori
Gloiopeltis tenax



II Sea Cultures

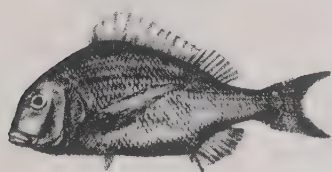
Yellowtail
Buri
Seriola quinqueradiata



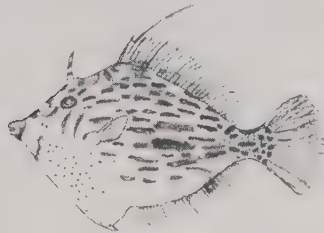
Globe fish
Torafugu
Fugu rubripes



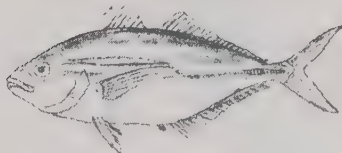
Red sea bream
Madai
Chrysophrys major



File fish
Kawahagi
Stephanolepis cirrhifer



Yellow jack
Shimaaji
Caranx delicatissimus



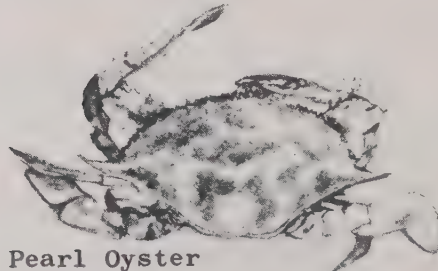
Octopus (Devilfish)
Madako
Octopus vulgaris



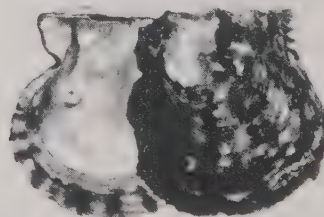
Prawn
Kurumaebi
Penaeus japonicus



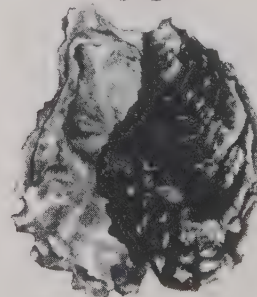
Blue crab
Gazami
Neptunus trituberculatus



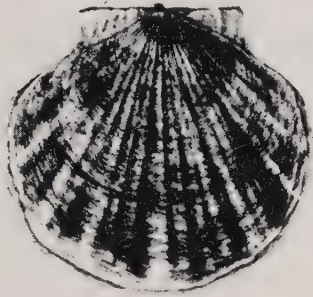
Pearl Oyster
Akoyagai
Pinctada martensii



Oyster
Magaki
Crassostrea gigas



Common scallop
Hotategai
Pecten yessoensis



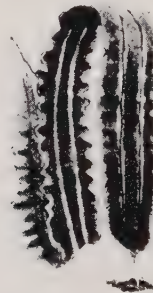
Seaweed
Wakame
Undaria pinnatifida



Laver (Seaweed "Nori")
Asakusanori
Porphyra tenera



Kelp
Makonbu
Laminaria japonica

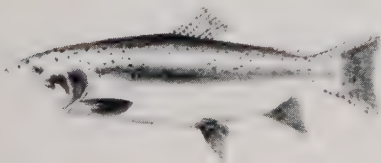


III Inland Water Fisheries

Chum salmon
Sake (Shirozake)
Oncorhynchus keta



Rainbow trout
Nijimasu
Salmo gairdnerii irideus



Pond-smelt
Wakasagi
Hypomesus olidus



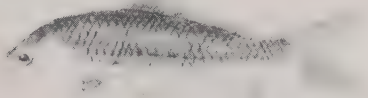
Sweet fish
Ayu
Plecoglossus altivelis



White bait
Shirauo
Salangichthys microdon



Common carp
Koi
Cyprinus carpio



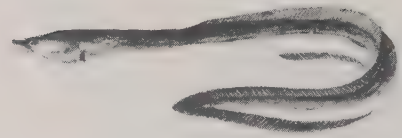
Crucian carp
Funa
Carassius auratus



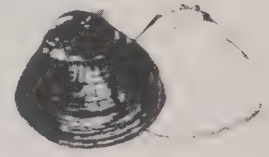
(Minnow)
Ugui
Tribolodon hakonensis hakonensis



Eel
Unagi
Anguilla japonica



Corbicula
Yamatoshijimi
Corbicula japonica



Shrimp
Nukaebi
Paratya compressa improvisa



Aquatic plant
Kawanori
Prasiola japonica



IV Inland Water Cultures

Rainbow trout
Nijimasu
Salmo gairdnerii irideus



Sweet fish
Ayu
Plecoglossus altivelis



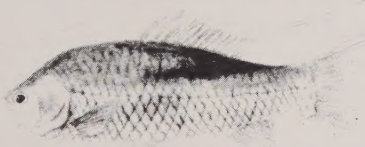
Common carp
Koi
Cyprinus carpio



Eel
Unagi
Anguilla japonica



Crucian carp
Funa
Carassius auratus

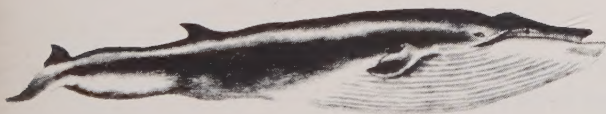


Fresh-water Pearl Oyster
Ikechogai
Hyriopsis schlegeli

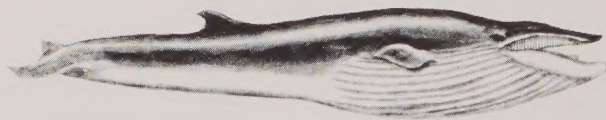


V Whaling

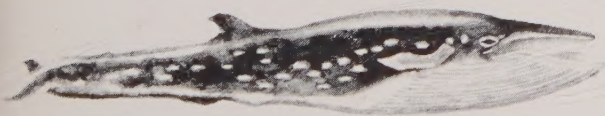
Fin whale
Nagasukujira
Balaenoptera physalus



Mink whale
Koiwashikujira
Balaenoptera acutoro strata



Sei whale
Iwashikujira
Balaenoptera borealis



Pilot whale
Gondokujira
Globicephala melacna



Sperm whale
Makkokujira
Physeter catodon



Killer Whale
Shachikujira
Orcinus orca



EXPLANATORY NOTES

1. Sources of statistics

Table No. 1-9, 12
17(B), 18(B)

Statistics and Information
Department, Ministry of
Agriculture and Forestry

Table No. 10, 11, 16

Fishery Agency, Ministry of Agri-
culture and Forestry.

Table No. 13-15

Customs Division, Ministry of
Finance

Table No. 17(A), 18(A)

Bureau of Statistics, Office of
the Prime Minister.

Reference Table 1, 2

F.A.O.

2. Period of inquisition

As a principle, the statistics in this bulletin are inquired by the Calendar year but the figures of the whaling in the Antarctic Ocean are given for the "Whaling year" (from Nov. 1972 to Mar. 1973)

3. Symbols

(0)	Means "Less than the unit amount"
(---)	Means "Unknown or not available"
(-)	Means "No record"
(Δ)	Means "Minus"
